ERCB ST89-31

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Reserves of Coal

Province of Alberta

December 1988

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PREFACE

One of the purposes of the Coal Conservation Act, Chapter C-14, Revised Statutes of Alberta, 1980, which is administered by the Energy Resources Conservation Board, is "to provide for the appraisal of Alberta's coal resources". A similar provision, relating to energy resources in general, appears in the Energy Resources Conservation Act, Chapter E-11, Revised Statutes of Alberta, 1980.

This report estimates the established resources, remaining reserves, and ultimate potential at 31 December 1988, and updates the thirteenth edition of Reserves of Coal, Province of Alberta, ERCB ST 88-31, published in April 1988.

SUMMARY

The Board estimates that Alberta's initial in-place established resources[1] of all types of coal total about 79 gigatonnes[2]. Of this amount about 32 gigatonnes, or approximately 41 per cent, is considered to be recoverable (by surface and underground methods), and of these recoverable reserves, 2.6 gigatonnes are within mine permit boundaries. A breakdown by rank of resources and reserves, which are contained in 65 coal fields and 17 isolated coal deposits, follows:

INITIAL ESTABLISHED RESOURCES AND REMAINING RESERVES OF COAL IN ALBERTA

Rank	Mineability	In-Place Resources	Reserves	
			Mine	Total
		(gigatonnes)		
Low- & medium-volatile bituminous & minor semi-anthracite	Surface	1.5		0.70
	Underground	4.9		0.82
	Total	6.5	0.25	1.5
High-volatile bituminous	Surface	3.3		2.4
	Underground	3.5		0.91
	Total	6.8	1.1	3.4
Subbituminous & minor lignite	Surface	14		8.5
	Underground	51		19
	Total	65	1.2	27
	TOTAL	79	2.6	32

1 The Board uses a uniform nomenclature (more fully discussed in Chapter 4) for all energy resources.

2 giga = 10^9; 1 tonne = 1.102 short tons (2000 lb.).

Total resources of coal in Alberta are broadly estimated to be 2400 gigatonnes, of which 750 gigatonnes, or 31 per cent, are considered to be potentially recoverable. A regional distribution of this total is as follows:

TOTAL RESOURCES AND ULTIMATE POTENTIAL OF COAL IN ALBERTA

Region	In-Place	Ultimate Potential
	(gigatonnes)	
Mountain	28	5.1
Foothills	15	9.9
Plains	2400	740
TOTAL	2400	750

The surface-mineable reserves in the Plains Region have been subdivided on the basis of strip ratio as shown below.

STRIPPABLE COAL RESERVES IN THE ALBERTA PLAINS REGION

Strip Ratio	Reserves	Percentage of Total
(cu m/tonne)[a]	(gigatonnes)	
0 to 5	2.2	26
5+ to 10	4.9	58
10+ to 13	1.3	16

a Cubic metres of waste per tonne of recoverable coal.

1 INTRODUCTION

The Board's estimate of coal resources presented in this report is based mainly on an evaluation of drillhole logs (geophysical, core, and descriptive) that companies and government organizations undertaking coal exploration in Alberta are required to submit to the Board under the provisions of the Coal Conservation Act. Use has also been made of mine plans and of geological reports and maps published by the Alberta Research Council and the Geological Survey of Canada.

Three coal-bearing regions based on coal rank, geology and topography, and generally coinciding with the province's principal physiographic areas, have been designated. This designation also permits the grouping of coals of similar economics and amenable to similar exploration, mining and reclamation techniques. The regions are:

- the Mountain Region, which contains mainly low- and medium-volatile bituminous coals often suitable, after processing, for metallurgical purposes, and which generally exhibits complex geological structures and steep topography;
- the Foothills Region, which contains mainly high-volatile C bituminous coal mainly useable, after processing, as a high-grade thermal coal, and which generally exhibits moderately complex geological structures and hilly topography; and
- the Plains Region, which contains mainly subbituminous coals suitable for captive power plants, domestic heating, and coal-conversion processes, and which generally exhibits tabular coal seams and relatively flat or incised plateau topography.

For all three regions various criteria and procedures (detailed in Chapter 5) are applied to the drillhole evaluations to determine the number, thickness and density of coal seams which are then used to designate coal occurrences, deposits and fields.

A **coal occurrence** is defined as a location where the existence of coal seams greater than 0.6 of a metre has been demonstrated but generally where the areal extent of the coal has not been established.

A **coal deposit** is defined as an area in which coal seams have been sufficiently explored to permit calculation of established resources. The minimum initial in-place resource considered to constitute a deposit is one million tonnes.

A **coal field** is defined as an area containing either several deposits spaced no more than eight kilometres apart or a single deposit with initial in-place established resources of at least 50 million tonnes. Those deposits which do not form part of any field are referred to as **isolated deposits.**

All fields, as well as those isolated deposits of relatively large areal extent in the Plains Region, have been given Designated Coal Field status by the Board and are listed in Appendix I. The designated field boundaries have been made to coincide with Provincial Land Survey grid lines or, in some instances, with topographic features (such as rivers).

The approximate boundaries of the coal regions, the locations of coal fields and isolated deposits, and the position of coal deposits within Plains Region coal fields are shown in Figures 1a and 1b (in pocket at back of report).

2 GEOLOGY AND DISTRIBUTION

Coal-bearing formations underlie some 303 000 square kilometres, or approximately 46 per cent, of Alberta and are associated with Upper Jurassic, Cretaceous, and Lower Tertiary strata. Tables 2-1 and 2-2 show the relative positions of the major coal measures within Alberta's Upper Jurassic/Lower Tertiary stratigraphic sequence. Figure 2a shows the areal extent of the major coal-bearing formations, and Figure 2b presents a typical east-west cross-section.

The Mountain Region covers an area of about 26 000 square kilometres, but according to MacKay (1946), coal seams under less than 760 metres of cover underlie only 2700 square kilometres of this region. The remainder is either underlain by deeper coal-bearing strata or the coal measures have been eroded. Coal is associated with the Upper Jurassic/Lower Cretaceous Kootenay Group and the Lower Cretaceous Luscar Group. Where strata are relatively undisturbed, seams may be up to 14 metres thick.

The Foothills Region covers an area of some 28 000 square kilometres and is generally bounded by the 1200 metre elevation contour in the east and the 1500 to 1800 metre contour in the west. Coal seams at depths less than 760 metres occur only under 2200 square kilometres (MacKay, 1946), and are associated with the Upper Cretaceous Brazeau Formation (and equivalents) and with the Upper Cretaceous/Lower Tertiary Paskapoo Formation. In relatively undisturbed areas, single coal seams attain thicknesses up to 6 metres.

Because of extensive earth movements during the Laramide Orogeny, most coal-bearing strata in the Mountain and Foothills Regions lie in complex tectonic settings. Common features of coal deposits in the two regions are structural repetition, folding, faulting, thickening or

thinning of coal seams as well as of surrounding strata, and changes of dip.

The Plains Region, which extends southwards from Lesser Slave Lake and is bounded in the west by the eastern slopes of the Rocky Mountains, covers some 250 000 square kilometres or approximately 82 per cent of the total area underlain by coal-bearing strata in Alberta. Coal occurs in massive, laterally persistent zones in the Upper Cretaceous Oldman and Foremost Formations (which make up the Belly River Group), in the Horseshoe Canyon Formation, and in the Upper Cretaceous/Lower Tertiary Paskapoo Formation. Northwest of Edmonton, strata equivalent to the Horseshoe Canyon Formation form the upper part of the Wapiti Group.

As illustrated in Figure 2b, all these formations dip gently towards the southwest into the Alberta Syncline, which parallels the Rocky Mountains. The regional average dip of coal-bearing strata is 5 metres per kilometre, but locally it may vary from 2 to 12 metres per kilometre (Holter, Yurko and Chu, 1975).

Lateral continuity of individual seams is variable, but coal zones are generally persistent over large areas. For example, the Coal Valley Coal Zone (containing the Val D'Or-Mynheer sequence of seams) that is mined at Coal Valley, near Hinton, is probably equivalent to the Ardley Coal Zone mined near Lake Wabamun, west of Edmonton. A single coal-bearing formation in the Plains Region frequently contains several seams, not all of which are mineable, and individual coal seams may attain thicknesses of up to 5 metres, with cumulative thicknesses in coal zones of up to 20 metres (Nurkowski, 1984).

The broad areal extent of the five major coal zones in the Plains Region is indicated in Figures 1a and 1b where the approximate position of the lower boundary of the zones is shown. From the oldest to the youngest, these zones are designated as the Taber, Lethbridge, Drumheller, Carbon-Thompson, and Ardley.

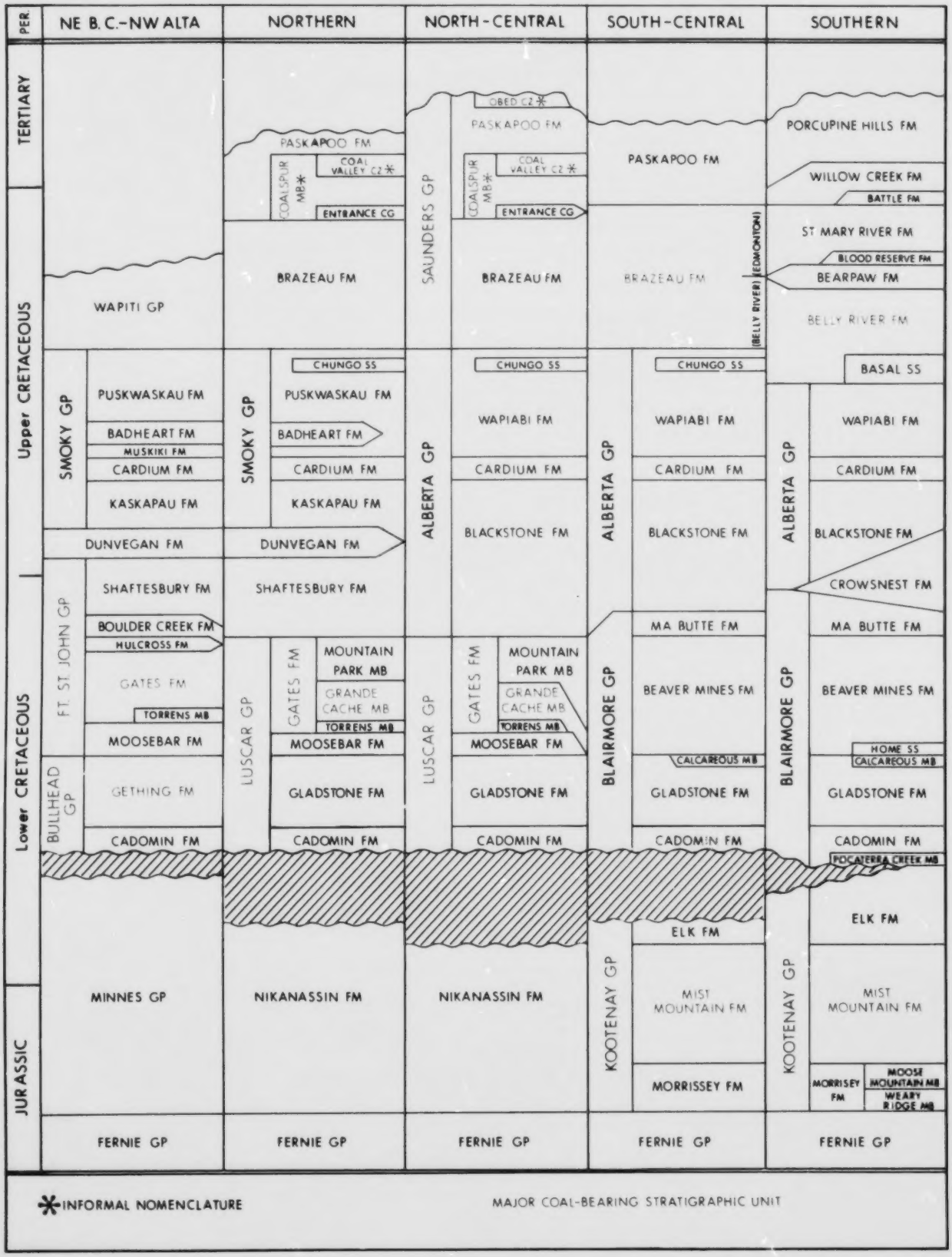
ABBREVIATIONS USED IN THE FOLLOWING TABLES 2-1[a] AND 2-2[a]

Abbreviation	Term
CG	Conglomerate
CRB-THM	Carbon-Thompson
CZ	Coal Zone
FM	Formation
GP	Group
MB	Member
PER	Period (Geologic)
SS	Sandstone
Z	Zone

a Compiled from numerous publications by the Geological Survey of Canada, the Canadian Society of Petroleum Geologists and the Alberta Research Council as well as other published articles and/or comments by various earth scientists and coal industry representatives.

TABLE 2-1

LITHOSTRATIGRAPHIC CORRELATION CHART OF THE MOUNTAIN AND FOOTHILLS REGIONS OF ALBERTA



*INFORMAL NOMENCLATURE

MAJOR COAL-BEARING STRATIGRAPHIC UNIT

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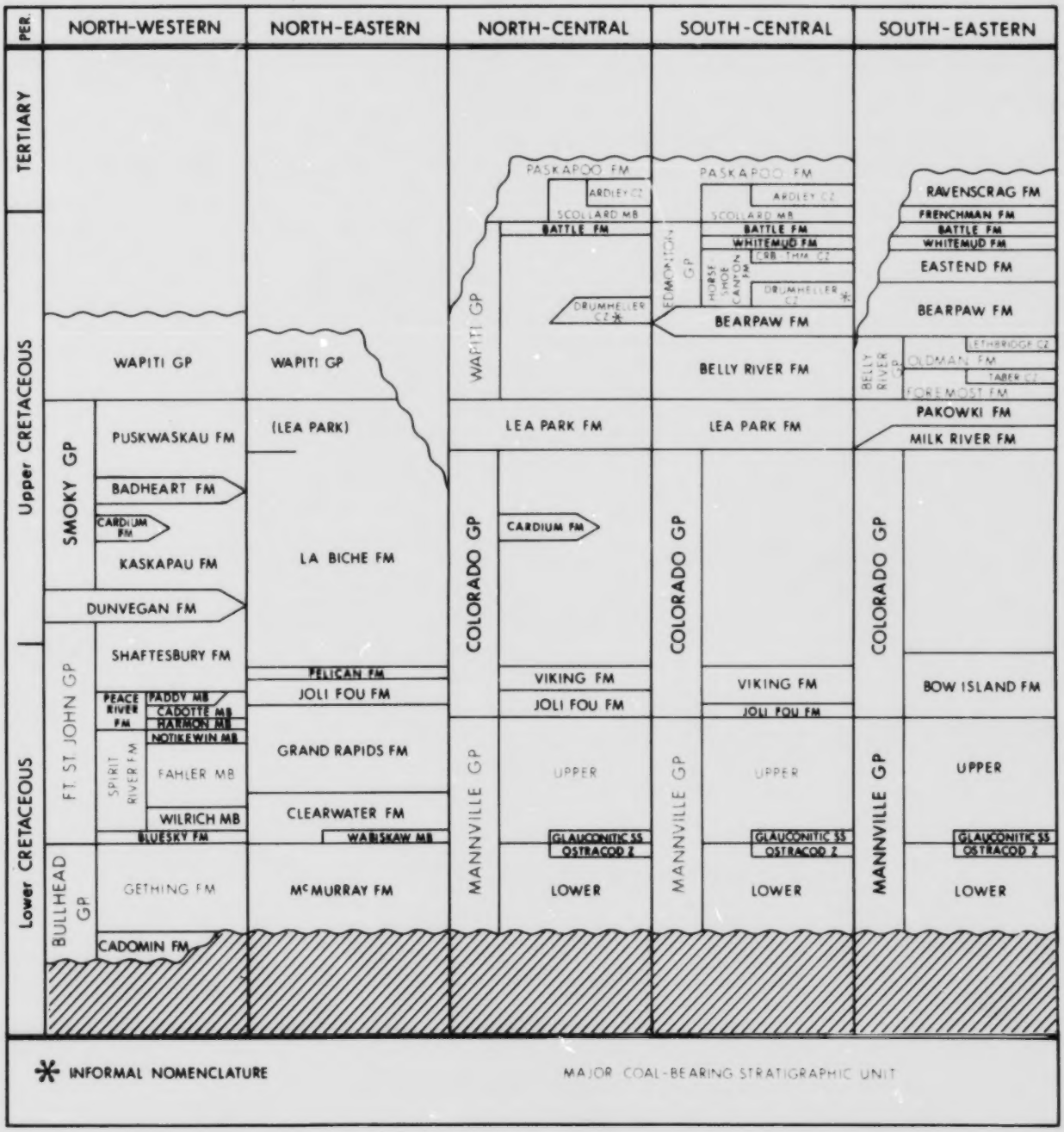
TABLE 2-2 LITHOSTRATIGRAPHIC CORRELATION CHART OF THE PLAINS REGION OF ALBERTA



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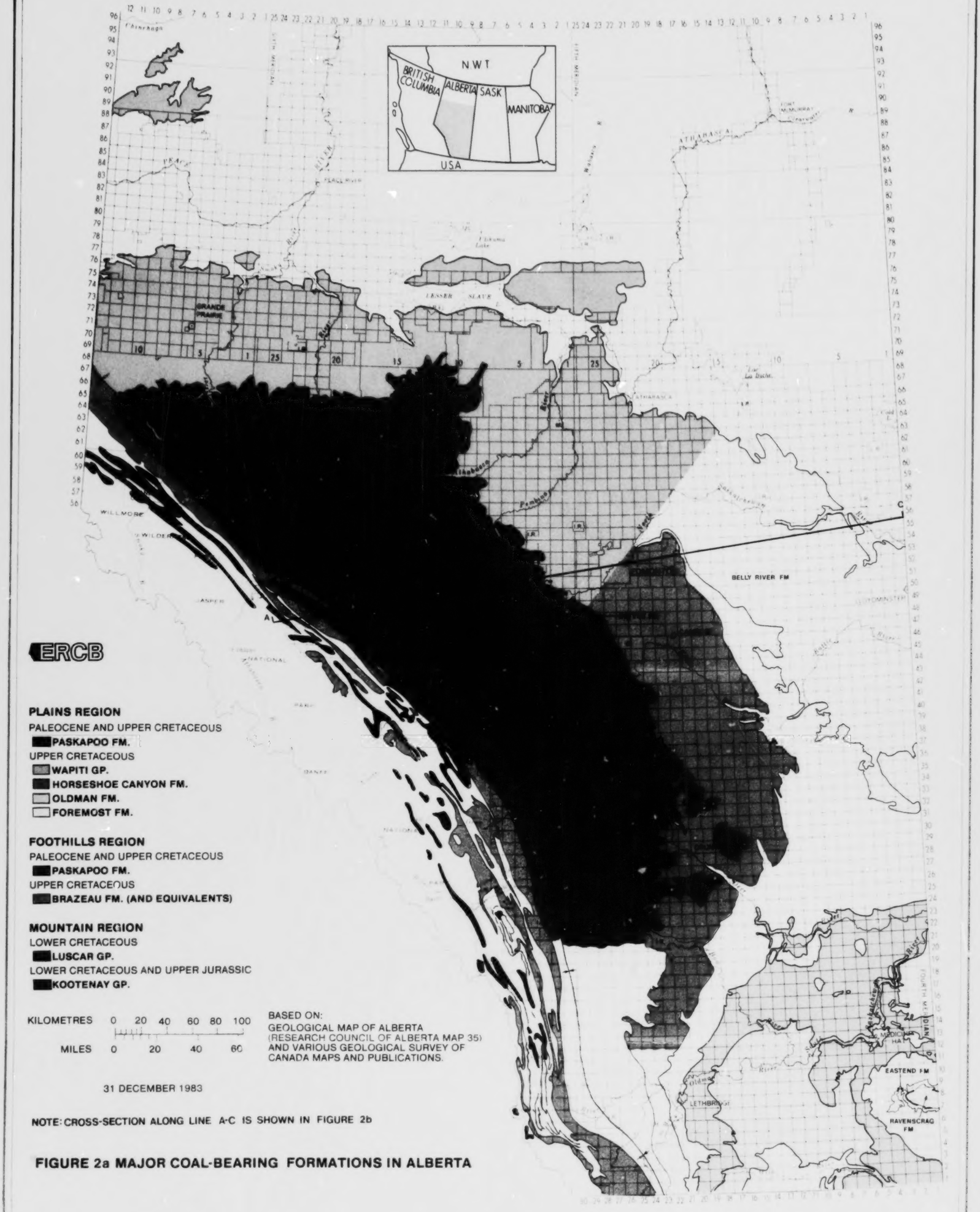

FIGURE 2a MAJOR COAL-BEARING FORMATIONS IN ALBERTA

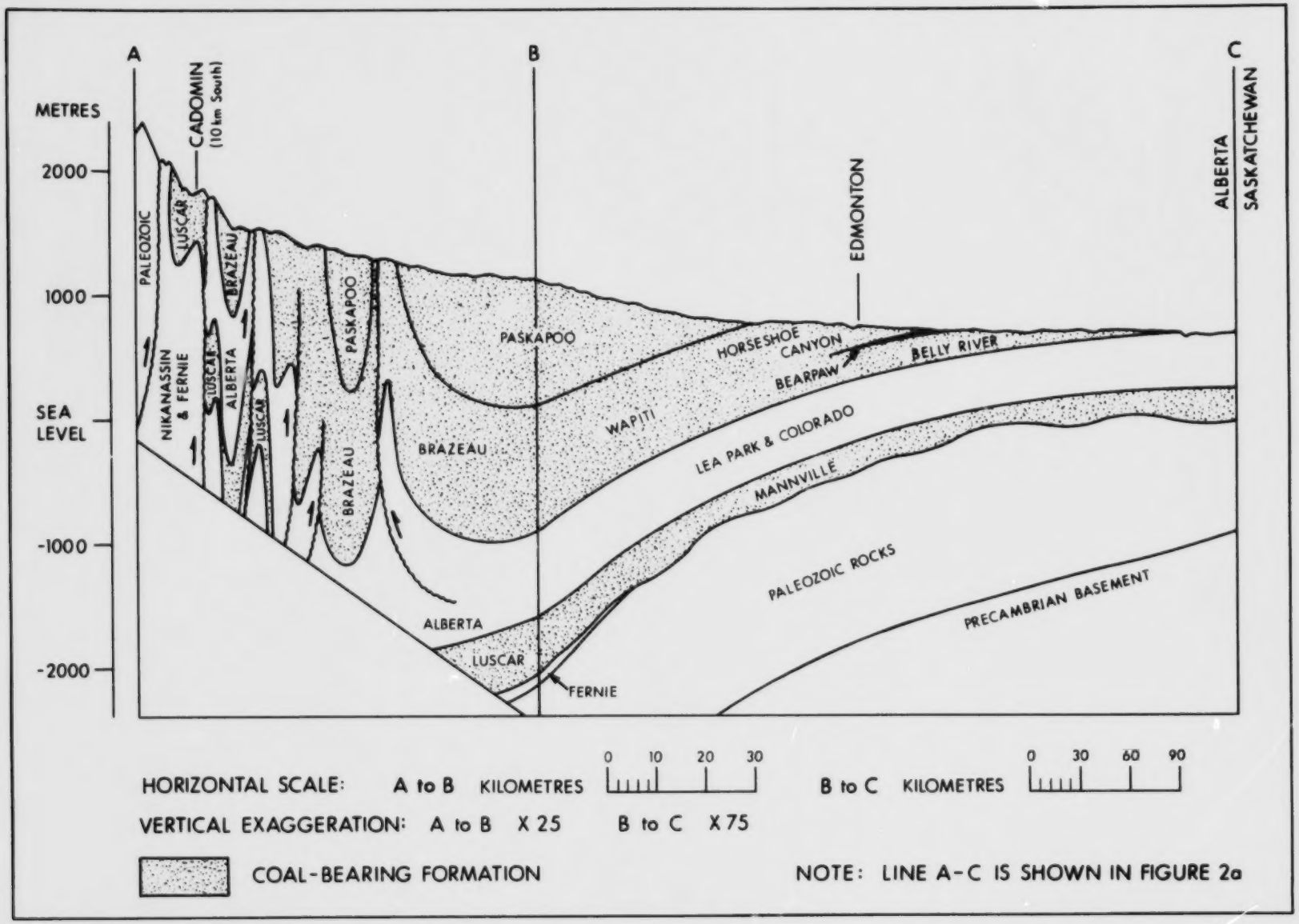

FIGURE 2b REPRESENTATIVE CROSS-SECTION SHOWING CENTRAL ALBERTA'S COAL-BEARING FORMATIONS

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3 RANK AND SULPHUR CONTENT

For administrative and regulatory purposes, the Board uses the coal classification system of the American Society for Testing and Materials (ASTM) which is summarized in Table 3-1.

Alberta's coal deposits encompass all groups of coal other than anthracite and meta-anthracite. Rank increases generally from east to west, and coals of similar rank and properties form broad belts paralleling the Rocky Mountains as shown in Figures 1a and 1b.

Most of the Plains Region coals are of subbituminous B and C rank. Lignite occurs near the northern and northeastern limits of the stratigraphically lowest coal horizons and in the southeastern coal deposit of Cypress Hills. Near the region's western boundary coal rank increases to subbituminous A. In the southwest and northwest, near Lethbridge and Musreau Lake respectively, coal is of high-volatile C bituminous rank.

The westerly increasing rank progression continues in the Foothills Region from high-volatile bituminous C to B and A. These coals are generally nonagglomerating. Most of the coal in the Foothills is high-volatile C and there is some subbituminous A in the northeast of the region.

In the Mountain Region most of the coal is of medium- and low-volatile bituminous rank, but there are also some deposits of high-volatile A bituminous coal, mainly in the Crowsnest Pass area, and some semi-anthracite occurs in the Canmore area. Because caking properties are typically associated with higher-rank bituminous coals, metallurgical coals are confined to the Mountain Region.

A significant feature of Alberta's coal is its low (organic and inorganic) sulphur content, which is generally less than 1 per cent.

TABLE 3-1 CLASSIFICATION OF COAL BY RANK[a]

Class	Group	Calorific Value[b] (MJ/kg)	Volatile Matter[c] (per cent)	Fixed Carbon[c] (per cent)
	Meta-anthracite		2	98
Anthracitic	Anthracite		8	92
	Semi-anthracite		14	86
	Low-volatile bituminous		22	78
	Medium-volatile bituminous		31	69
Bituminous	High-volatile A bituminous	32.6		
	High-volatile B bituminous	30.2		
	High-volatile C bituminous	26.7		
	Subbituminous A[d]	24.4		
Subbituminous	Subbituminous B	22.1		
	Subbituminous C	19.3		
Lignitic	Lignite A	14.7		
	Lignite B			

a Based on ASTM D388-77 in Annual Book of ASTM Standards, Part 26 Gaseous Fuels; Coal and Coke (1980). American Society for Testing and Materials

b Moist, mineral-matter-free basis. (Megajoules per kilogram).

c Dry, mineral-matter-free basis.

d High-volatile C bituminous if agglomerating.

However, considerable variations are sometimes found between seams in a single coal zone. In the southwest quarter of the province, total sulphur contents range from 0.5 to 1.0 per cent, and elsewhere they are usually less than 0.5 per cent. Work done by the Geological Survey Department of the Alberta Research Council (Nurkowski, 1984) shows that coals of the Belly River Group average about 0.66% sulphur, of the Horseshoe Canyon Formation about 0.47%, and of the Scollard Member of the Paskapoo Formation 0.39%. The range of values is such that the occasional result exceeding 2% sulphur can be expected.

Earlier data accumulated by the Alberta Research Council indicate that coals with the lowest sulphur content (0.2 per cent on a dry basis) occur in the Wabamun and Coalspur Fields. Those with the highest (1.8 per cent) have been reported from the Beaver Mines Field. However, 38 kilometres northwest of this field, at Tent Mountain, coal with only 0.4 per cent sulphur has been recorded.

4 RESOURCE TERMINOLOGY

The Joint Task Force on Uniform Reserves Terminology (Weaver et al, 1978), set up under the Inter-Provincial Advisory Committee on Energy, recommended that certain terms and definitions for reporting hydrocarbon reserves be adopted throughout Canada. However, in order to make the recommended terminology appropriate for coal, and to eliminate uncertainties created by earlier usages, the ERCB has slightly modified it.

The modified terminology for coal is shown in graphic form in Figure 4a, and, as there indicated, the principal terms and their redefined meanings are as follows:

1 Resource - A gross quantity of coal calculated, interpreted, or presumed to exist in the ground.

2 Established Resource - A body of coal that has been specifically delineated by drilling, trenching, driving adits, mine development operations or other exploratory work, but including some judged to exist contiguously on the basis of geological, seismic, or similar information.

3 Reserve - That portion of an established resource considered recoverable by current technology under present or anticipated economic and social conditions.

4 Initial In-Place - The quantity of a resource prior to any production.

5 Initial Reserve - A reserve prior to deduction of any production.

6 Remaining Reserve - The initial reserve less cumulative production.

7 Ultimate Potential - An estimate of the initial reserves which will have become developed in an area by the time all exploratory

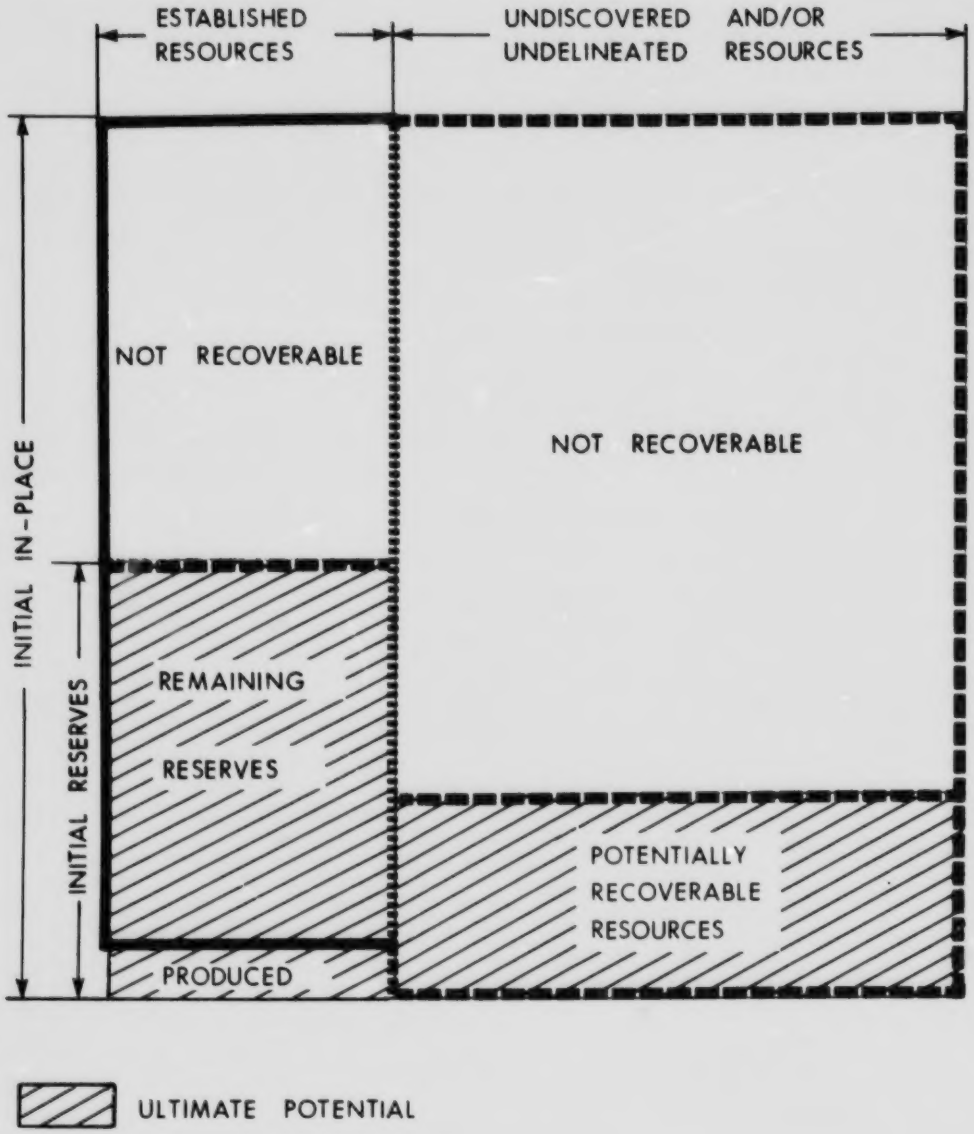

FIGURE 4a SCHEMATIC REPRESENTATION OF ERCB RESOURCE TERMINOLOGY

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and development activity has ceased, having regard for the geological prospects of that area and anticipated technological, economic, and social conditions. Ultimate potential includes cumulative production, remaining reserves and presumed future additions through extensions and revisions of existing deposits, and the discovery or delineation of new deposits.

More specific guidelines and rules used to define resources and reserves are discussed in the following chapter.

5 CRITERIA AND PROCEDURES FOR ESTIMATING RESOURCES AND RESERVES

Coal reserves are calculated on the basis of information derived from such observation points as exploratory holes, adits, and mine workings. Where feasible, reserves have been estimated for all seams 0.6 metres and thicker to a maximum depth of 600 metres (formerly 610 metres).

5.1 SPACING OF OBSERVATION POINTS

The greater part of the reserves lie in deposits for which observation points are from 150 to 900 metres apart. In a few instances, where there is good evidence of seam continuity, data points up to 1800 metres apart in the Mountains and Foothills, and up to about 3500 metres apart in the Plains, have been included.[3]

5.2 PROJECTION BEYOND OBSERVATION POINTS

Where sufficient information is available, the true (stratigraphic, structural, or erosional) boundaries of a deposit are determined. Often, however, it appears that the coal is continuous well beyond the last observation point. In such instances, an arbitrary boundary is placed sufficiently close to the nearest observation points to allow a reasonable estimate of coal thickness within the deposit (as defined).

It has also sometimes been necessary, especially in the Plains Region, to subdivide very large continuous deposits and to treat the individual parts as if they were separate deposits.

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3 The relative accuracy with which an actual coal thickness may be established is a function of the variation in measured thicknesses between observation points as well as of the number of observation points. Acceptable drillhole spacings can therefore vary considerably from place to place.

5.3 DEFINITION OF SEAMS

Individual seams lying close together in a vertical sequence are considered to form a single mineable seam if the component seams are too thin to mine individually or the partings too thin to separate from the seams. In the Mountain and Foothills Regions seams with mineral matter in excess of 50% are excluded from resource estimates and in the Plains Region seams with more than 35% mineral matter are excluded.

5.4 INITIAL QUANTITY IN-PLACE

Several techniques, in particular the block kriging, grid, polygon, and cross-section methods, have been used for calculating in-place volumes, with separate volumes calculated for surface- and underground-mineable coal.

In general, shallow coal is mined more cheaply by surface than by underground methods, and such coal is therefore classified as surface-mineable. At some stage of increasing depth and strip ratio the advantage passes to underground mining, and such coal is considered underground-mineable. The classification scheme used to differentiate between surface- and underground-mineable coal is very broadly based on depth and strip ratio designed to reflect relative costs, but does not necessarily mean that the coal could be mined under the economic conditions prevailing today.

Surface-mineable Coal

Surface-mineable coal that would be strip-mined is defined as lying within 60 metres of the surface, and with a waste to raw coal ratio nowhere exceeding 13 cubic metres per tonne. Other surface-mineable coal, where overburden would be removed by truck and shovel methods, is considered to have an overall waste to raw coal ratio of not greater than 12 cubic metres per tonne. However, for the latter case quantitites calculated prior to 1982 used a figure of 9 cubic metres per tonne.

Underground-mineable Coal

Underground-mineable coal seams have been divided into three thickness categories:

- o thin - 0.6 metres and thicker, but less than 1.5 metres;
- o medium - 1.5 to 3.6 metres;
- o thick - thicker than 3.6 metres.

Where possible, coal within Category 2 of the land categories described in 'A Coal Development Policy for Alberta',[4] is classified as "underground".

Tonnages have been calculated using specific gravities from 1.30 to 1.68, depending on mineral-matter content.

5.5 DEFINITION OF ESTABLISHED RESOURCES

A standard error (based on uncertainties in coal thickness, area, and coal specific gravity) was determined for each deposit, and established in-place tonnages were taken to be two standard errors less than the best estimate (as calculated above).[5] For Mountain and Foothills deposits calculated prior to 1982 a subjectively conservative estimate of tonnages was made. Nevertheless, an assumed standard error of 5% has now been applied to these deposits.

5.6 RECOVERY FACTORS

Certain parts of deposits are considered non-recoverable, namely,

- o areas within or close to old mine workings, towns, major roads, railways, and bodies of water;
- o small pockets of otherwise mineable coal isolated from the main body of mineable coal;

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4 See Chapter 8.

5 e.g If the calculated tonnage for a deposit was 100 million and the standard error 10 million, the "established" quantity would be taken as 100-2x10 = 80 million tonnes.

- o all coal in Category 1 of the land categories described in 'A Coal Development Policy for Alberta'; and
- o all coal in the 'Kananaskis Country Sub-Regional Integrated Resource Plan' area.

Surface-mineable Coal

To the remaining surface-mineable coal, a recovery factor of 90 per cent has been assigned, followed by a coal loss of 8 centimetres from the top, and with a dilution caused by the addition of 2 centimetres of non-coal material to the bottom, of each seam. For reserves calculated prior to 1984 the recovery factor was 85 per cent or a coal loss of 8 centimetres, top and bottom of seam.

Underground-mineable Coal

In the case of underground-mineable coal, geologically complex environments may make mining of significant parts of some deposits uneconomic. Since there is seldom sufficient information to outline such areas, it is assumed that, on average, of coal not previously excluded, 50 per cent of the deposit area would be mineable in the Mountain Region, 70 per cent in the Foothills, and 90 per cent in the Plains.

A mining recovery factor of 75 per cent is then applied to both medium and thick seams, but with a maximum recoverable thickness of 3.6 metres applied to thick seams. For reserves calculated prior to 1984, mining recovery factors of 75 and 50 per cent were applied to medium and thick seams, respectively. Thin seams are not considered recoverable by underground methods.

The effective recovery factors, determined by multiplying deposit factors by mining recovery factors, used to estimate underground-mineable coal reserves are thus as follows:

Region	Seam Thickness	Recovery Factors For Underground Mineable Coal		
		Deposit	Mining	Effective
Mountain	Thin	0.5	0.00	0.00
	Medium	0.5	0.75	0.38
	Thick	0.5	0.75 x TR[a]	0.38 x TR[a]
Foothills	Thin	0.7	0.00	0.00
	Medium	0.7	0.75	0.53
	Thick	0.7	0.75 x TR[a]	0.53 x TR[a]
Plains	Thin	0.9	0.00	0.00
	Medium	0.9	0.75	0.68
	Thick	0.9	0.75 x TR[a]	0.68 x TR[a]

a TR (thickness ratio) = $\frac{\text{Max. recoverable thickness (3.6 metres)}}{\text{seam thickness in metres}}$

5.7 CLASSIFICATION BY STRIP RATIO

The reserves of surface-mineable coal in each deposit in the Plains Region have been subdivided arealy on the basis of strip ratio, i.e. the ratio of volume of overburden and interburden to weight of recoverable coal. By combining the reserves in each strip ratio category for the entire region the percentage surface-mineable coal for incremental strip ratios has been calculated.

6 ESTABLISHED RESOURCES AND RESERVES

The initial in-place established resources, as well as the initial and remaining reserves of coal fields and isolated coal deposits in Alberta's three coal regions are given in Tables 6-1, 6-2, and 6-3.

In each table, the coal fields are listed alphabetically. The cumulative total for the isolated deposits follow the listings of coal fields. The cumulative production of all abandoned mines located outside of deposit boundaries is included under the term miscellaneous and the cumulative initial in-place resources and initial reserves have been increased accordingly. Figures 1a and 1b show the location of the fields and isolated deposits.

In general, the totals in the following tables are not arithmetic sums. Each total is arrived at by subtracting two standard errors (calculated separately for that total) from an arithmetic sum (see Appendix II). As a result, the actual quantity of the resource will more often than not be greater than that shown in the tables. Tonnages have been rounded to two significant figures, or if over one gigatonne to the nearest ten megatonnes.

The number of coal seams shown for each field is that used for computing the in-place resource, although all of these seams are not necessarily continuous throughout the field.

Seam thickness denotes the average aggregate true thickness used to calculate the initial in-place resource.

The estimated "as-mined" heating value of the coal is based on Alberta Research Council data and on analyses submitted to the Board by industry. Modern mining methods generally result in greater dilution of the coal by partings than past, more selective mining practices, and in estimating as-mined heating values due allowance was made for this.

The current review resulted in the following net changes relative to the Board's 31 December 1987 coal reserves report ERCB ST 88-31.

Region	Reserves (gigatonnes)		
	1987	1988	Change
Mountain			
Surface-mineable	0.77	0.73	-0.04
Underground-mineable	0.90	0.87	-0.03
Foothills			
Surface-mineable	2.51	2.51	-
Underground-mineable	0.31	0.31	-
Plains			
Surface-mineable	8.31	8.40	+0.09
Underground-mineable	17.78	19.33	+1.55
Total (not arithmetic)	30.9	32.4	+1.6

In the Plains Region the isolated deposit of North Brooks is now the Rosemary Coal Field. The Mayerthorpe Coal Field has had the deposit of Jalna split into the deposits of Rangeton and Park Court and the new deposit of Chip Lake has been added.

No changes to deposit boundaries occurred in the Mountain or Foothills Regions.

As a result of a re-examination of coal quality data a general adjustment to the as-mined heating values and some deposit ranks has been made to all Regions.

A detailed breakdown of reserves by individual deposit is given in Appendix III. Some basic information relating to the coal occurrences of the Mountain and Foothills Regions is given in Appendix IV.

ABBREVIATIONS USED IN THE FOLLOWING TABLES 6-1, 6-2, AND 6-3

Abbreviation	Term
AGG AV THKNS	Aggregate average thickness
AS MINED H V	As-mined heating value
ASTM	American Society for Testing and Materials
BELLY RVR	Belly River
CL	Coal
CLSPR	Coalspur
CL VLY	Coal Valley
CUM PROD	Cumulative production
FT ST JOHN	Fort St. John
GRND CACHE	Grande Cache
HRSHOE CAN	Horseshoe Canyon
SCOLL	Scollard
H-V A	High-volatile A bituminous
H-V B	High-volatile B bituminous
H-V C or HVC	High-volatile C bituminous
LIG A	Lignite A
L-V	Low-volatile bituminous
M	Metres
MAX DEPTH	Maximum depth
MIST MTN	Mist Mountain Formation
MJ/KG	Megajoules/kilogram[a]
M-V	Medium-volatile bituminous
NO OF SEAMS USED	Number of seams used
RECOV RATIO	Recovery ratio
SA	Semi-anthracite
SQ KM	Square kilometres
SUB A	Subbituminous A
SUB B	Subbituminous B
SUB C	Subbituminous C
SURF	Surface-mineable
TOT	Total
U G	Underground-mineable
YEAR REV	Year of most recent revision

a mega = 10^6
kilo = 10^3

TABLE 6-1 ESTABLISHED RESOURCES AND RESERVES OF COAL IN THE MOUNTAIN REGION OF ALBERTA, AT 31 DECEMBER 1988

COAL FIELD	INITIAL IN-PLACE RESOURCES	RECOV RATIO	INITIAL RESERVES	CUM PROD	REMAINING RESERVES TOT	REMAINING RESERVES SURF	REMAINING RESERVES U G	NO OF SEAMS USED	AGG AV THKNS	MAP AREA	MAX DEPTH
	MEGATONNES		MEGATONNES		MEGATONNES				M	SQ KM	M
A LA PECHE LAKE	53	0.81	43	0.0	43	42	0	6	3.5	7	107
BANKHEAD	62	0.05	3	3.2	0	0	0	8	11.0	4	600
BEAVER CREEK	100	0.21	21	0.0	21	0	21	4	11.3	8	610
BEAVER MINES	33	0.12	4	0.4	4	0	4	1	2.2	10	610
BELLEVUE	310	0.23	71	27.2	44	0	43	5	6.2	31	610
BLAIRMORE	470	0.50	240	14.9	220	170	51	6	12.6	23	610
BRULE	81	0.18	15	1.7	13	3	10	5	5.3	12	610
CADOMIN-LUSCAR	330	0.56	190	69.4	120	99	16	6	11.1	15	610
CANMORE	820	0.18	150	16.0	130	0	130	24	16.2	40	610
COLEMAN	430	0.28	120	32.3	89	27	60	7	9.9	26	610
COSTIGAN	240	0.00	0	0.0	0	0	0	9	8.6	22	460
HIGHWOOD FORD	72	0.00	0	<0.1	0	0	0	6	8.8	5	610
KAKWA RIVER	580	0.03	15	0.0	15	0	15	8	9.6	43	457
KANANASKIS	85	0.00	0	0.0	0	0	0	4	5.1	9	488
MOBERLY CREEK	400	0.00	0	0.0	0	0	0	3	10.4	24	610
MOUNTAIN PARK	140	0.39	54	6.4	47	32	14	2	7.3	9	451
NORDEGG	260	0.30	79	9.6	69	0	69	7	14.2	15	579
OLDMAN RIVER	610	0.16	99	0.0	99	0	99	8	12.3	31	610
POCATERRA	120	0.00	0	0.0	0	0	0	5	19.0	3	610
RAM RIVER	470	0.19	88	<0.1	88	0	88	5	5.1	66	312
SAVANNA CREEK	160	0.05	7	0.0	7	0	7	6	12.2	6	610
SEVEN MILE CREEK	110	0.32	34	0.0	34	0	34	4	5.9	15	305
SMOKY RIVER	980	0.50	490	41.3	440	310	130	7	9.0	58	610
SOUTHESK RIVER	58	0.19	11	0.0	11	0	11	4	5.3	8	312
TENT MOUNTAIN	92	0.39	36	7.3	29	10	17	5	15.2	3	610
ISOLATED DEPOSITS	84	0.13	11	1.0	10	6	3	12	4.4	11	610
MISCELLANEOUS	0	0.14	0	<0.1	0	0	0				
TOTAL /////////	7480	0.25	1850	230.8	1620	730	870	/////	9.2	504	/////////
T O T A L S B Y R A N K											
RANK											
SA	440	0.16	72	9.6	62	0	62		15.7	22	610
L-V	2540	0.31	780	90.9	690	390	290		10.5	141	610
M-V	3450	0.25	870	107.3	770	300	460		8.5	258	610
M-V A	340	0.29	97	23.1	74	24	48		5.8	36	610
M-V B	610	0.00	0	0.0	0	0	0		9.0	47	610

NOTES: SEE APPENDIX I FOR COAL FIELD LOCATIONS
SEE APPENDIX II FOR METHOD OF SUMMATION

MOUNTAIN REGION

GEOLOGICAL HORIZON			RANK	MINED AS H V	YEAR REV	REMARKS
GROUP	FORMATION	MEMBER/ZONE	ASTM	MJ/KG		
LUSCAR	GATES	GRND CACHE/	L-V/M-V	24.5	1987	
KOOTENAY	MIST MTN		SA/L-V	0.0	1983	
KOOTENAY	MIST MTN		M-V	27.4		
KOOTENAY	MIST MTN		H-V A	26.9		
KOOTENAY	MIST MTN		M-V/H-V A	27.5		
KOOTENAY	MIST MTN		M-V	27.2	1982	
LUSCAR	GATES	GRND CACHE/	M-V	27.7		
LUSCAR	GATES	GRND CACHE/	L-V/M-V	26.0	1988	2 PERMITTED MINES
KOOTENAY	MIST MTN		SA/L-V	28.5		
KOOTENAY	MIST MTN		M-V	24.7	1982	
KOOTENAY	MIST MTN		M-V	0.0	1982	
KOOTENAY	MIST MTN		L-V/M-V	0.0		
FT ST JOHN	GATES		M-V/H-V A	28.1		
KOOTENAY	MIST MTN		L-V	0.0		
LUSCAR	GATES	GRND CACHE/	H-V B	0.0		
LUSCAR	GATES	GRND CACHE/	M-V/H-V A	28.0		
LUSCAR	GATES	GRND CACHE/	L-V	28.4		
KOOTENAY	MIST MTN		M-V	27.2		
KOOTENAY	MIST MTN		L-V	0.0		
LUSCAR	GATES	GRND CACHE/	M-V	28.6	1984	
KOOTENAY	MIST MTN		L-V/M-V	27.5		
LUSCAR	GATES	GRND CACHE/	M-V	28.2		
LUSCAR	GATES	GRND CACHE/	L-V	27.9	1986	2 PERMITTED MINES
LUSCAR	GATES	GRND CACHE/	M-V	27.9	1984	
KOOTENAY	MIST MTN		M-V	28.4		
			L-V	27.5	1980	
			M-V	0.0	1987	ABANDONED MINES NOT IN FIELDS
				27.4		

SA	28.5
L-V	27.8
M-V	27.0
H-V A	27.8
H-V B	0.0

TABLE 6-2 ESTABLISHED RESOURCES AND RESERVES OF COAL IN THE FOOTHILLS REGION OF ALBERTA, AT 31 DECEMBER 1988

COAL FIELD	INITIAL IN-PLACE RESOURCES	RECOV RATIO	INITIAL RESERVES	CUM PROD	REMAINING RESERVES TOT	REMAINING RESERVES SURF	REMAINING RESERVES U G	NO OF SEAMS USED	AGG AV THKNS	MAP AREA	MAX DEPTH
	MEGATONNES		MEGATONNES		MEGATONNES				M	SQ KM	M
COALSPUR	880	0.56	490	57.4	440	290	140	7	7.4	76	610
HANNINGTON	180	0.66	120	0.0	120	120	0	3	2.9	54	91
JARVIS LAKE	350	0.24	84	0.0	84	0	77	10	4.5	54	200
MCLEOD RIVER	2480	0.76	1890	1.6	1890	1820	57	24	13.3	120	589
OBED MOUNTAIN	210	0.87	180	7.3	180	180	0	5	5.5	27	149
ISOLATED DEPOSITS	74	0.50	37	2.7	35	14	20	3	2.5	21	610
MISCELLANEOUS	0	0.74	0	0.3	0	0	0				
TOTAL /////////	4330	0.67	2910	69.2	2840	2510	310	/////	7.9	353	/////////
TOTALS BY RANK											
RANK											
H-V A	3	0.04	0	0.1	0	0	0		1.8	1	274
H-V B	46	0.58	27	0.8	26	14	11		2.8	12	610
H-V C	4030	0.67	2700	63.0	2640	2320	300		8.9	286	610
SUB A	210	0.74	160	5.3	150	150	0		3.2	53	149

NOTES: SEE APPENDIX I FOR COAL FIELD LOCATIONS
SEE APPENDIX II FOR METHOD OF SUMMATION

GEOLOGICAL HORIZON			RANK	MINED AS H V	YEAR REV	REMARKS
GROUP	FORMATION	MEMBER/ZONE	ASTM	MJ/KG		
SAUNDERS	PASKAPOO	CLSPR/CL VLY	H-V C	20.7	1984	2 PERMITTED MINES
SAUNDERS	PASKAPOO	/OBED	HVC/SUB A	18.7	1983	
SAUNDERS	PASKAPOO	CLSPR/CL VLY	H-V C	17.1	1984	
SAUNDERS	PASKAPOO	CLSPR/CL VLY	H-V C	19.2	1986	1 PERMITTED MINE
SAUNDERS	PASKAPOO	/OBED	HVC/SUB A	18.6	1987	1 PERMITTED MINE
			H-V B/C	24.8		
			H-V C	0.0	1987	ABANDONED MINES NOT IN FIELDS
//				19.4	//	

H-V A	0.0
H-V B	25.0
H-V C	19.4
SUB A	18.7

TABLE 6-3 ESTABLISHED RESOURCES AND RESERVES OF COAL IN THE PLAINS REGION OF ALBERTA, AT 31 DECEMBER 1988

COAL FIELD	INITIAL IN-PLACE RESOURCES	RECOV RATIO	INITIAL RESERVES	CUM PROD	REMAINING RESERVES			NO OF SEAMS USED	AGG AV THKNS	MAP AREA	MAX DEPTH
					TOT	SURF	U G				
	MEGATONNES		MEGATONNES		MEGATONNES				M	SQ KM	M
ALIX	4330	0.36	1550	0.9	1550	390	1140	7	3.0	1018	274
ARDLEY	7610	0.54	4140	3.7	4140	370	3750	4	3.3	1622	292
BARRHEAD	550	0.16	88	<0.1	88	64	18	3	1.5	283	90
BATTLE RIVER	3780	0.35	1310	46.1	1260	790	440	5	2.3	1221	165
BLACKFOOT	250	0.50	130	0.2	130	100	19	3	3.4	58	105
BOW ISLAND	290	0.05	15	0.1	15	11	2	2	1.2	186	62
BROOKS	520	0.51	260	1.4	260	100	150	3	1.7	228	134
BUFFALO HILL	2400	0.39	940	0.0	940	0	940	5	4.9	395	446
CHAIN LAKES	110	0.13	15	<0.1	15	3	10	2	1.5	59	105
DRUMHELLER	2850	0.23	660	53.3	600	56	540	9	3.0	714	298
EAST BROOKS	260	0.57	150	0.0	150	140	3	3	1.5	126	38
EAST EDMONTON	2200	0.27	590	<0.1	590	170	400	11	4.1	417	189
FIREBAG	160	0.23	36	0.0	36	0	36	8	11.2	14	126
FOX CREEK	1930	0.48	930	0.0	930	870	50	5	2.9	463	91
GARDEN PLAIN	74	0.56	42	0.1	41	41	0	1	1.1	49	32
GRASSY LAKE	120	0.63	78	0.4	77	77	0	4	1.8	54	40
HUSSAR	1640	0.22	370	0.0	370	41	320	10	3.4	345	236
LESSER SLAVE LAKE	170	0.22	38	0.0	38	38	0	6	1.6	88	81
LETHBRIDGE	1250	0.39	490	23.3	470	0	470	4	1.8	482	346
MAYERTHORPE	5270	0.44	2330	2.0	2330	150	2170	6	3.6	1026	338
MCGREGOR LAKE	56	0.01	1	0.5	0	0	0	7	1.1	45	255
MEDICINE HAT	770	0.28	210	0.9	210	8	200	5	2.1	304	204
MORINVILLE	2160	0.33	710	8.5	700	660	33	4	2.2	724	149
MUSREAU LAKE	550	0.38	210	0.0	210	130	71	7	2.2	180	140
ROLLING HILLS	370	0.25	94	0.1	94	0	94	2	2.4	127	121
ROSEMARY	120	0.08	10	0.0	10	0	10	2	1.3	81	74
SCOLLARD	320	0.24	75	0.7	74	24	45	4	2.4	99	152
SHEERNESS	290	0.73	210	9.8	200	200	0	3	2.7	76	37
SIMONETTE	190	0.00	0	0.0	0	0	0	6	4.8	36	89
SOUTH SWAN HILLS	1260	0.53	670	<0.1	670	330	300	10	2.8	338	195
STRATHMORE	1680	0.44	740	0.3	740	7	730	4	4.1	306	365
TABER	150	0.08	11	3.9	7	7	0	1	0.9	126	78
TOFIELD-DODDS	4130	0.33	1340	7.3	1340	600	710	5	3.6	849	185
WABAMUN	9610	0.55	5270	165.8	5110	1320	3770	6	6.3	1073	302
WETASKIWIN	6530	0.50	3230	0.6	3230	1250	1950	10	3.5	1328	286
ISOLATED DEPOSITS	330	0.19	61	1.7	60	51	7	3	1.3	203	96
MISCELLANEOUS	33	0.45	15	14.9	0	0	0				
TOTAL /////////	66930	0.42	28190	346.4	27850	8400	19330	/////	3.2	14769	/////////

NOTES: SEE APPENDIX I FOR COAL FIELD LOCATIONS
SEE APPENDIX II FOR METHOD OF SUMMATION

PLAINS REGION

GEOLOGICAL HORIZON			RANK	AS MINED H V	YEAR REV	REMARKS
GROUP	FORMATION	MEMBER/ZONE	ASTM	MJ/KG		
	PASKAPOO	SCOLL/ARDLEY	SUB B	16.9	1986	SOME CARBON-THOMPSON COAL; 1 PERMITTED MINE
	PASKAPOO	SCOLL/ARDLEY	SUB B	17.9	1986	SOME CARBON-THOMPSON COAL; 1 PERMITTED MINE
WAPITI		/DRUMHELLER	SUB C	17.1		
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB C	18.3	1984	3 PERMITTED MINES
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB B	18.4		
BELLY RVR	FOREMOST	/TABER	SUB B	19.4		
BELLY RVR	OLDMAN	/LETHBRIDGE	SUB A/B	19.8	1987	
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB A	20.1	1984	
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB C	16.0	1983	
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB A/B	17.3	1985	DEPOSITS 9&10, ARDLEY COAL
BELLY RVR	OLDMAN	/LETHBRIDGE	SUB B	18.5	1988	
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB B/C	17.7	1988	
	MCMURRAY		LIG A	15.0		
	PASKAPOO	SCOLL/ARDLEY	SUB C	13.8		
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB C	16.6		
BELLY RVR	FOREMOST		SUB B	17.0	1983	
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB A	19.9	1987	
WAPITI			LIG A	13.9		
BELLY RVR	OLDMAN	/LETHBRIDGE	H-V C	22.4	1987	
	PASKAPOO	SCOLL/ARDLEY	SUB B	17.5	1988	1 PERMITTED MINE
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB A	0.0		
BELLY RVR	FOREMOST		SUB C	17.1	1984	
WAPITI		/DRUMHELLER	SUB C	17.1	1981	3 PERMITTED MINES
	PASKAPOO	SCOLL/ARDLEY	HVC/SUB A	19.5	1987	
BELLY RVR	FOREMOST	/TABER	SUB B	18.1		
BELLY RVR	OLDMAN	/LETHBRIDGE	SUB A/B	18.3	1988	FORMERLY ISOLATED DEPOSIT NORTH BROOKS
	PASKAPOO	SCOLL/ARDLEY	SUB B	16.7	1982	DEPOSIT 1 & SOME OF OTHERS, CARB-THOMPSON CL
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB C	14.5	1985	2 PERMITTED MINES
	PASKAPOO	SCOLL/ARDLEY	SUB A	0.0		
	PASKAPOO	SCOLL/ARDLEY	SUB C	15.3	1983	
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB A	21.0	1987	SOME SHALLOW CARBON-THOMPSON COAL
BELLY RVR	FOREMOST	/TABER	SUB A	22.2	1986	
EDMONTON	HRSHOE CAN	/DRUMHELLER	SUB C	17.7		2 PERMITTED MINES
	PASKAPOO	SCOLL/ARDLEY	SUB B	18.9	1987	2 PERMITTED MINES
	PASKAPOO	SCOLL/ARDLEY	SUB B	18.4	1987	SOME CARBON-THOMPSON CL; 2 PERMITTED MINES
			SUB C	15.8		1 PERMITTED MINE
			SUB C	0.0	1987	ABANDONED MINES NOT IN DEPOSITS
//				18.1	//	

TABLE 6-3 (CONTINUED)

COAL FIELD	INITIAL IN-PLACE RESOURCES	RECOV RATIO	INITIAL RESERVES	CUM PROD	REMAINING RESERVES TOT	REMAINING RESERVES SURF	REMAINING RESERVES U G	NO OF SEAMS USED	AGG AV THKNS	MAP AREA	MAX DEPTH
	MEGATONNES		MEGATONNES		MEGATONNES				M	SQ KM	M
TOTALS BY RANK											
RANK											
H-V C	1660	0.38	630	23.6	610	70	530		1.8	647	378
SUB A	8650	0.34	2970	39.8	2930	220	2690		3.3	1926	446
SUB B	38820	0.47	18130	153.5	17980	4200	13710		3.6	7417	338
SUB C	16620	0.36	6000	128.9	5880	3720	2080		2.6	4588	204
LIG A	520	0.27	140	0.5	140	84	45		2.2	191	126

NOTES: SEE APPENDIX I FOR COAL FIELD LOCATIONS
SEE APPENDIX II FOR METHOD OF SUMMATION

GEOLOGICAL HORIZON			RANK	AS MINED H-V	YEAR REV	REMARKS
GROUP	FORMATION	MEMBER/ZONE	ASTM	MJ/KG		
			H-V C	22.1		
			SUB A	20.1		
			SUB B	18.1		
			SUB C	16.8		
			LIG A	14.7		

7 SURFACE-MINEABLE COAL IN THE PLAINS REGION

Figure 7a shows the cumulative percentage of remaining surface-mineable coal reserves in the Plains Region as a function of strip ratio (described on page 5-5).

This figure indicates that the average strip ratio of surface-mineable Plains coal is about 6 cubic metres of waste per tonne of coal; that approximately one quarter of the reserves are available at strip ratios of 5 to 1 or better; and that more than half the reserves are available at strip ratios between 5 and 10 to 1.

Figures 1a and 1b (in pocket at back of report) show those Plains areas in which coal is most amenable to recovery by strip mining.

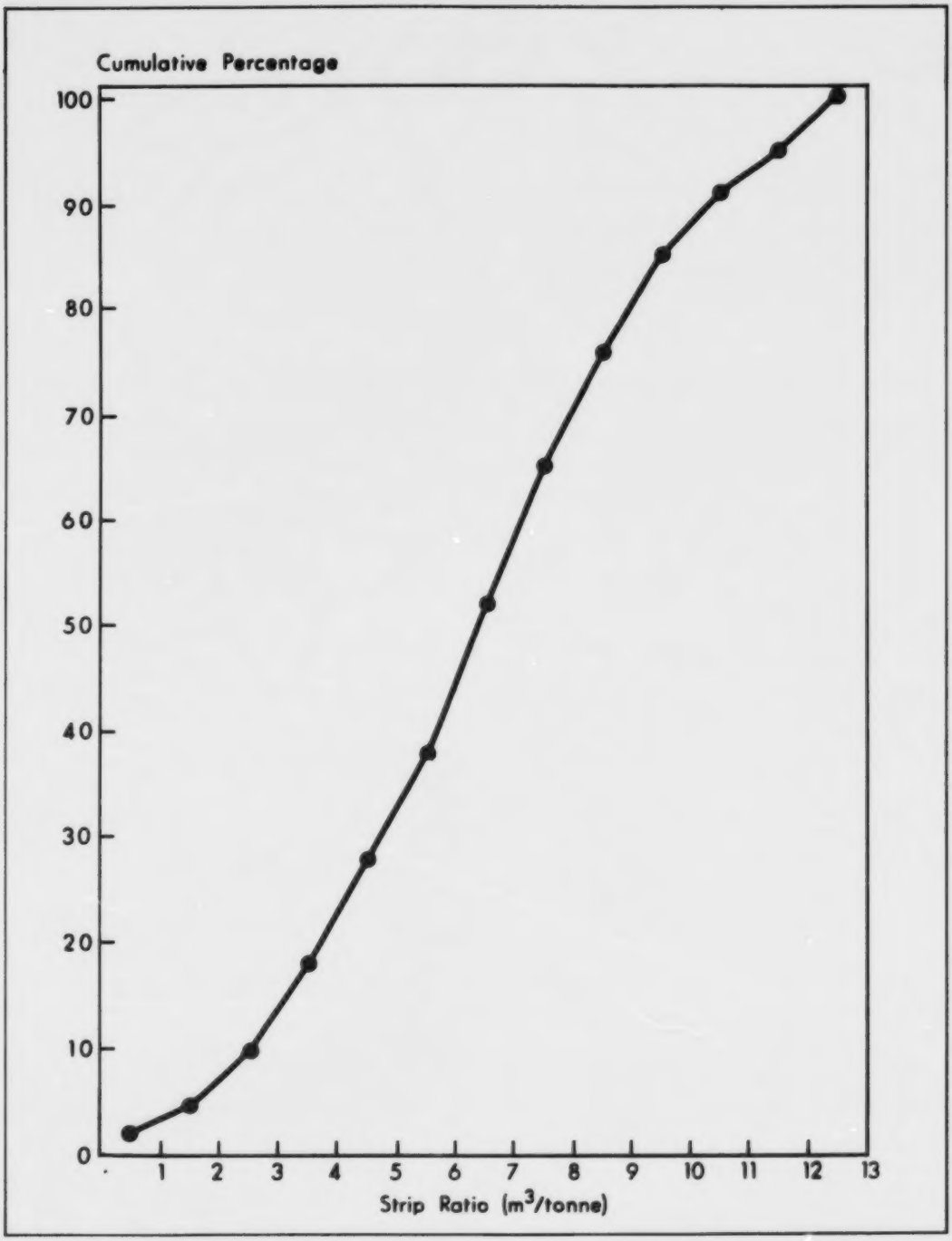

FIGURE 7a CUMULATIVE PERCENTAGE OF REMAINING SURFACE MINEABLE PLAINS COAL RESERVES VERSUS STRIP RATIO.

8 THE COAL DEVELOPMENT POLICY FOR ALBERTA AND RESERVES OF COAL

The Alberta Coal Development Policy, released in 1976, divides Alberta into three regions:

- the Settled Region
- the Northern Forested Region
- the Eastern Slopes Region

Within these regions, provincial lands are classified into four categories with respect to coal exploration and development. In summary, the allowable activity in these categories is as follows:

Category	Exploration	Development
1	None	None
2	Limited exploration permitted under strict control	Restricted development, underground or in-situ only
3	Exploration permitted under normal approval procedures	Restricted development
4	Exploration permitted under normal approval procedures	Development permitted under normal approval procedures

The Settled Region includes some Category 1 areas, but falls mainly in Category 4.

The Northern Forested Region includes some Category 1 areas, but mostly comprises Category 3.

The Eastern Slopes Region includes areas in Categories 1, 2, and 3, and some in Category 4.

When the policy was first introduced about 38% of what would otherwise have been considered recoverable reserves in the Mountain Region had to be reclassified as non-recoverable. These potential reserves are mostly in Land Category 1, but include some potentially surface mineable reserves in Category 2.

The tables in Appendix III indicate for each deposit the land category occupied under the policy.

9 ULTIMATE POTENTIAL

A combination of two methods has been used to estimate ultimate potentials. In the first, the volume method, a broad estimate of area, coal thickness, and recovery ratio is used for each coal-bearing horizon, while the second estimates the ultimate potential from the trend of initial reserves versus exploration effort.[6]

It is inevitable that a large measure of uncertainty is associated with estimation of an ultimate potential. Results derived from the current best fit could be substantially altered by new data. To avoid large fluctuations of ultimate potentials from year to year, the policy has been adopted of using the figures published in the previous Reserves Report[6] and adjusting them slightly to reflect the most recent trends.

Ultimate potentials for the Mountains, Foothills, and Plains Regions now stand at 5.1, 9.9 and 740 gigatonnes, respectively. Table 9-1 gives quantities by rank for surface- and underground-mineable total in-place resources as well as the ultimate potentials. Most of the ultimate potential lies in the Drumheller and Ardley zones of the Plains Region.

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6 See ERCB 82-31, chapter 9. References for original volume calculations are given in this report.

TABLE 9-1 TOTAL IN-PLACE RESOURCES AND ULTIMATE POTENTIALS

Coal Rank	Mineability	Total In-Place	Ultimate Potential
		(gigatonnes)	
Low- and medium-volatile bituminous	Surface	2.9	2.1
	Underground	22	2.3
	Total	25	4.4
High-volatile bituminous	Surface	11	8.5
	Underground	600	180
	Total	610	190
Subbituminous	Surface	14	9.5
	Underground	1 800	550
	Total	1 800	560
Grand Total[a]		2 400	750

a Totals have been rounded to two significant figures.

10 MINE PERMIT RESERVES

Any developer wishing to mine coal in Alberta must first obtain a permit and licence from the ERCB. An application for a permit must contain extensive information on coal reserves, proposed mining methods, marketing of coal, etc.; and coal reserves within the applied-for mine area must be at least sufficient to meet the marketing plans of the applicant.

Tables 10-1 and 10-2 show the established resources and reserves within current mine permit boundaries. Included are current and cumulative production figures, and since coal mined in the Mountain and Foothills Regions requires preparation before shipment, the tables also show cleaned coal output from mines in these regions. Cumulative production figures are for the current permit boundaries and as such they include production from abandoned mines located inside, and exclude the production from those mined-out areas of the permitted mine now outside, the boundaries.

Proximate analyses and heating values relate to coal as sold, and are taken from published sources. Where such sources give several sets of analyses for a mine, usually referring to separate size fractions, a simple arithmetic average has been used.

A designation is given to those mines which were active (either under construction or produced some quantity of coal) during the year. Mine locations are shown in Figures 1a and 1b (in pocket at back of report).

In 1988 in the Plains Region the Pyramid mine (Mine No. 1795) was abandoned and has been deleted from Table 10-2. The new mine of Bow City (Mine No. 1802) has been added.

ABBREVIATIONS USED IN THE FOLLOWING TABLES 10-1 and 10-2

Abbreviation	Term
ASTM	American Society for Testing and Materials
cum	cumulative
ha	hectares
h-v C	high-volatile C bituminous
lig-A	lignite A
l-v	low-volatile bituminous
MJ/kg	megajoules per kilogram
Moist	moisture
m-v	medium-volatile bituminous
Ref	reference source for quality information
S	sulphur
sub-A	subbituminous A
sub-B	subbituminous B
sub-C	subbituminous C
VM	volatile matter

REFERENCE SOURCES FOR COAL QUALITY USED IN TABLES 10-1 and 10-2

Symbol	Source
A	Bonnell, G.W. and Janke, L.C., Canmet Report 85-11E
B	Tibbetts, T. E., Mines Branch Information Circular IC 314
C	Montgomery, W. J. et al, Mines Branch Information Circular IC 182
D	Montgomery, W. J. et al, Mines Branch Information Circular IC 173
E	Swartzman, E., Mines Branch Report No. 836
F	Campbell, J. D., Research Council of Alberta Preliminary Report 64-3
G	Mine Permit Application

TABLE 10-1 ESTABLISHED RESOURCES AND RESERVES OF COAL IN PERMITTED MINE SITES, MOUNTAIN AND FOOTHILLS REGIONS OF ALBERTA, AT 31 DECEMBER 1988

Field Deposit	Company or Mine Name	Permit Number	Mine Number	Permit Area (ha)	Initial In-Place Resources (megatonnes)
Cadomin-Luscar					
Gregg-Drinnan	Gregg River	C 81-24	1770[a]	3 509	67
Luscar	Cardinal River	C 87-2	1768[a]	2 980	155
Coalspur					
Coal Valley	Coal Valley	C 81-45	1778[a]	5 006	182
Mercoal	Mercoal	C 83-14	1799	6 920	310
McLeod River					
North & South	McLeod River	C 82-60	1798	8 060	850
Obed Mountain					
Marsh South, Obed North & Obed South	Obed	C 82-53	1791[a]	7 460	205
Smoky River					
Sheep-Beaverdam, Smoky-Sheep, No. 5 Mine & No. 12 Mine	Smoky River (surface) (underground)	C 86-15 C 84-12	1774[a] 1765[a]	7 700	457
Total, Active in 1988				26 655	1 066
Total, Not Active				14 980	1 160
GRAND TOTAL				41 635	2 226

a Active in 1988.

MOUNTAIN AND FOOTHILLS REGIONS

Initial Reserves	Production 1988 Raw	1988 Clean	Cum Raw	Remaining Reserves	Rank	Clean Coal Quality Heating Value	Moist	Ash	VM	S	Ref
(megatonnes)					(ASTM)	(MJ/kg)	(percentage)				
51	2.6	1.9	14.2	36	m-v/l-v	30.8	5.9[a]	9.4	19.9	0.3	A
91	2.7	2.2	45.2	46	m-v/l-v	30.3	7.2[a]	9.1	20.5	0.2	A
155	3.6	2.0	52.1	103	h-v C	25.2	9.2[b]	10.3	30.0	0.3	A
205	-	-	1.2	204	h-v C	27.3	7.6[b]	11.8	34.4	0.3	G
735	-	-	<0.1	735	h-v C	26.8	11.0[b]	11.3	34.6	0.3	G
180	2.4	1.3	7.3	173	h-v C/ sub-A	23.6	12.3[b]	10.9	37.8	0.4	A
205	2.0	1.5	41.3	164	l-v	32.8	3.0[a]	6.9	16.9	0.4	A
682	13.4	8.8	160.1	522							
940	-	-	1.2	939							
1 622	13.4	8.8	161.3	1 461							

a As-received basis.
b Equilibrium basis.

TABLE 10-2 ESTABLISHED RESOURCES AND RESERVES OF COAL IN PERMITTED MINE SITES, PLAINS REGION OF ALBERTA, AT 31 DECEMBER 1988

Field Deposit	Company or Mine Name	Permit Number	Mine Number	Permit Area (ha)	Initial In-Place Resources (megatonnes)
Alix					
Heatburg	Sissons	C 76-69	809[a]	389	4.8
Ardley					
Delburne	John Lynass	C 80-38	1734	32	2.2
Battle River					
Forestburg	Diplomat	C 79-1	1578	350	5.0
Central Battle R.	Vesta	C 76-63	1046[a]	2 592	54
Central Battle R.& Paintearth	Paintearth	C 78-12	1781[a]	2 414	87
Brooks					
Bow City-Kitsum	Bow City	C 87-20	1802	460	12
Mayerthorpe					
Park Court	Pembina	C 76-67	1739	305	3.3
Morinville					
Picardville	Picardville	C 76-68	1523	32	0.5
Manawan Lake	Egg Lake	C 76-60	1582[a]	284	7.0
Cardiff	Star-Key	C 81-1	1626	264	6.9
Sheerness	Montgomery	C 79-4	443[a]	2 543	97
	Sheerness	C 79-3	1782	4 406	100
Thorhild-Abee	North Point	C 76-66	1562[a]	96	2.4

a Active in 1988.

PLAINS REGION

Production					Coal Quality					
Initial Reserves	1988	Cumulative	Remaining Reserves	Rank	Heating Value	Moist	Ash	VM	S	Ref
(megatonnes)				(ASTM)	(MJ/kg)	(percentage)				
3.5	<0.1	0.7	2.8	sub-B	21.6	18.8[a]	8.8	28.3	0.3	C
1.6	-	0.2	1.4	sub-B						
3.0	-	0.7	2.3	sub-C	18.7	23.5[b]	10.3	29.6	0.4	A
35	1.0	18.2	17	sub-C	18.2	22.9[b]	11.8	28.7	0.4	A
59	2.2	10.7	48	sub-C	19.3	25.4[b]	6.6	29.0	0.4	A
8.0	-	0.7	7.0	sub-A/B	20.4	17.4[b]	15.0	30.3	0.7	G
2.2	-	0.2	2.0	sub-B	20.8	19.8[b]	10.7	26.6		F
0.4	-	0.1	0.3	sub-C	19.6	27.1[b]	6.8	28.1		F
4.5	<0.1	1.0	3.5	sub-C	19.6	26.0[a]	7.0	31.5	0.3	D
4.5	-	<0.1	4.5	sub-C	19.2	23.8[b]	9.8	28.7	0.3	B
64	1.7	9.8	54	sub-C	18.7	26.1[b]	6.1	29.3	0.5	A
76	-	<0.1	76	sub-C						
1.6	<0.1	0.4	1.2	lig-A	18.0	33.0[a]	4.4	30.0	0.3	C

a As-received basis.
b Equilibrium basis.

TABLE 10-2 (CONTINUED)

Field Deposit	Company or Mine Name	Permit Number	Mine Number	Permit Area (ha)	Initial In-Place Resources (megatonnes)
Tofield-Dodds					
Tofield	Tofield	C 86-5	1803	1 000	16
Dusty Lake	Dodds	C 76-59	215[a]	96	1.4
Wabamun					
Whitewood	Whitewood	C 78-16	1757[a]	4 698	179
Sundance & Keephills	Highvale	C 88-8	1769[a]	12 140	950
Wetaskiwin					
Genesee	Genesee	C 80-14	1788[a]	7 230	249
Genesee	Warburg	C 76-71	1670[a]	243	3.4
Total, Active in 1988				32 725	1 635
Total, Not Active				6 849	146
GRAND TOTAL				39 574	1 781

a Active in 1988.

PLAINS REGION

Initial Reserves	Production 1988	Production Cumulative	Remaining Reserves	Rank	Coal Quality Heating Value	Coal Quality Moist	Coal Quality Ash	Coal Quality VM	Coal Quality S	Ref
(megatonnes)				(ASTM)	(MJ/kg)	(percentage)				
13	-	2.5	11	sub-C	19.2	25.0[a]	8.7	29.6	0.4	G
1.1	<0.1	0.5	0.6	sub-C	20.0	25.0[a]	7.3	28.2	0.5	E
116	2.9	48.6	67	sub-B/C	17.9	20.3[b]	15.3	27.4	0.3	A
752	12.0	117.0	635	sub-B/C	18.9	19.4[b]	12.7	27.7	0.2	A
186	0.1	0.1	186	sub-B	18.3	19.0[a]	18.7	26.0	0.2	G
2.6	<0.1	0.4	2.2	sub-A/B	23.0	17.7[a]	7.6	29.0	0.4	C
1 225	20.0	207.4	1 017							
109	-	4.4	105							
1 334	20.0	211.8	1 122							

a As-received basis.
b Equilibrium basis.

APPENDIX I BOARD DESIGNATED COAL FIELDS IN ALBERTA

Coal Field	Designated Number	Location[a] Meridian West of	Township	Range
MOUNTAIN REGION				
A La Peche Lake	CF-210	6	55	6
Bankhead	CF-177	5	26	11
Beaver Creek	CF-190	5	13	4
Beaver Mines	CF-70	5	5	2
Bellevue	CF-40	5	7	3
Blairmore	CF-77	5	7	4
Brule	CF-42	5	50	27
Cadomin-Luscar	CF-211	5	47	24
Canmore	CF-79	5	24	10
Coleman	CF-204	5	8	4
Costigan	CF-71	5	31	11
Highwood Ford	CF-195	5	17	5
Kakwa River	CF-112	6	59	13
Kananaskis	CF-72	5	18	7
Moberly Creek	CF-73	6	53	2
Mountain Park	CF-116	5	45	23
Nordegg	CF-50	5	40	15
Oldman River	CF-51	5	12	4
Pocaterra	CF-201	5	21	8
Ram River	CF-117	5	38	12
Savanna Creek	CF-54	5	14	5
Seven Mile Creek	CF-185	5	35	10
Smoky River	CF-205	6	58	9
Southesk River	CF-203	5	43	19
Tent Mountain	CF-56	5	7	6

a The location given is that which is most central to each field.

APPENDIX I (continued)

Coal Field	Designated Number	Location		
		Meridian West of	Township	Range
FOOTHILLS REGION				
Coalspur	CF-192	5	48	21
Hannington	CF-81	5	56	22
Jarvis Lake	CF-197	5	52	27
McLeod River	CF-199	5	50	22
Obed Mountain	CF-82	5	53	24
PLAINS REGION				
Alix	CF-188	4	40	23
Ardley	CF-207	4	35	23
Barrhead	CF-118	5	60	3
Battle River	CF-119	4	41	17
Blackfoot	CF-156	4	20	20
Bow Island	CF-120	4	10	10
Brooks	CF-212	4	18	17
Buffalo Hill	CF-191	4	19	23
Chain Lakes	CF-178	4	33	16
Comrey	CF-88	4	3	7
Cypress Hills	CF-123	4	7	2
Devon	CF-124	4	51	25
Drumheller	CF-193	4	28	17
East Brooks	CF-216[a]	4	19	13
East Edmonton	CF-158	4	52	21
Firebag	CF-194	4	98	6
Fox Creek	CF-128	5	64	20
Garden Plain	CF-149	4	33	14

a The designation of this field came into force on 1 April 1989.

APPENDIX I (continued)

Coal Field	Designated Number	Location		
		Meridan West of	Township	Range
PLAINS REGION (continued)				
Grassy Lake	CF-94	4	10	13
Hussar	CF-196	4	23	20
Lesser Slave Lake	CF-131	5	71	4
Lethbridge	CF-213	4	9	22
Lucky Strike	CF-132	4	3	12
Mayerthorpe	CF-217[a]	5	56	8
McGregor Lake	CF-198	4	15	22
Medicine Hat	CF-200	4	10	6
Morinville	CF-168	4	57	26
Musreau Lake	CF-214	6	63	4
Pothole	CF-139	4	7	22
Rolling Hills	CF-148	4	14	13
Rosemary	CF-218[a]	4	21	16
Sawridge Hill	CF-202	5	73	8
Scollard	CF-176	4	36	21
Sheerness	CF-170	4	29	13
Simonette	CF-151	5	65	27
South Swan Hills	CF-187	5	63	10
Strathmore	CF-208	4	26	22
Swan Hills	CF-142	5	67	10
Taber	CF-209	4	10	16
Thorhild-Abee	CF-144	4	60	21
Tofield-Dodds	CF-164	4	48	18
Wabamun	CF-215	5	52	5
Wetaskiwin	CF-206	4	47	27

a The designation of this field came into force on 1 April 1989.

APPENDIX II METHOD OF SUMMATION OF COAL RESOURCES

Established coal resources are determined by first finding the best estimate for a deposit (i.e., the quantity that is as likely to err on the high as on the low side) and then subtracting twice the deposit standard error from that estimate.

Totals are arrived at by calculating a new standard error (equal to the square root of the sum of the squares of the individual standard errors), and subtracting twice the new standard error from the sum of the best estimates. An example for the initial in-place quantities in the Hussar Field of the Plains Region is given below. In this, B.E. denotes the best estimate and S the standard error; units are in megatonnes.

Deposit	B.E.	S^2	S	2 x S	B.E. - 2 x S (= Initial In-Place)
Chancellor	720	467	22	43	677
Crowfoot Creek	972	242	16	31	941
TOTAL	1693	709	27	53	1639

APPENDIX III DETAILED TABLES OF ESTABLISHED RESOURCES AND RESERVES

The initial in-place established resources and the initial and remaining reserves of coal in coal fields and deposits in Alberta's three coal regions are given in Tables A-1, A-2, and A-3.

In each table, the coal fields are listed alphabetically, with constituent deposits listed generally from north to south. The deposits of the Plains Region coal fields are also identified by map reference numbers that indicate deposit locations within their respective coal fields as shown in Figures 1a and 1b.

Tonnages are given in the form best estimate/standard error/established. The best estimate is that result of a calculation which is as likely to over-estimate as under-estimate the actual resource. The standard error is a measure of the reliability of the best estimate. For Mountain and Foothills resources calculated prior to 1982 an arbitrary standard error has been assigned. The established resource is defined to be the best estimate less two standard errors.

While the cumulative production by actual mining method is shown the total has been assigned to the mineability category as per the present classification scheme. As a result, some coal that was actually mined by underground methods has been deducted from the initial in-place surface-mineable resource.

The recovery ratio is the ratio of initial reserves to the initial in-place established resource.

The seam classification indicates whether the coal is potentially surface- or underground-mineable and, if the latter, the thickness type as given on page 5-3.

The number of coal seams shown for each field or deposit is that used for computing the in-place resource, although all of these seams are not necessarily continuous throughout the field or deposit.

The average dip is for the initial in-place resource, but the range of dips within a single deposit in the Mountain Region may be very large.

Aggregate average thickness, map area, density, and depths all refer to the initial in-place resource.

The estimated "as-mined" heating value of the coal allows for the average mineral matter of the remaining reserves.

Also shown are the land categories established by "A Coal Development Policy for Alberta". The effect of these categories on the reserves is discussed in Chapter 8.

The production of abandoned mines outside of deposit boundaries is included under the term miscellaneous. This production is separated on the basis of known or assumed rank and the initial in-place resources and initial reserves have been adjusted accordingly.

ABBREVIATIONS USED IN THE FOLLOWING TABLES A-1, A-2, and A-3

Abbreviation	Term
AGGREGATE AV THKNSS	Aggregate average thickness
AS MINED H V	As-mined heating value
ASTM	American Society for Testing and Materials
AV DIP	Average dip
BE	Best estimate
DEG	Degrees
ESTB	Established
FM	Formation
GP	Group
H C	Horseshoe Canyon Formation
HIGH VOL BIT	High-volatile bituminous
H-V A	High-volatile bituminous A
H-V B	High-volatile bituminous B
H-V C or HVC	High-volatile bituminous C
INIT	Initial
LAND CATG	Land category
LIG A	Lignite A
L-V or LOW VOL BIT	Low-volatile bituminous
MJ/KG	Megajoules per kilogram
MT.	Mount
MTN.	Mountain
M-V or MED VOL BIT	Medium-volatile bituminous
N	North
NO.	Deposit Number
NO SMS USED	Number of seams used
PROD	Production
R.	River
RECOV RATIO	Recovery ratio
S	South
SA	Semi-anthracite
SE	Standard error
SEAM CLASS	Seam classification
SQ KM	Square kilometres
SUB A	Subbituminous A
SUB B	Subbituminous B
SUB C	Subbituminous C
SURF	Surface-mineable
T/CUBIC M	Tonnes per cubic metre
TOT	Total
U G	Underground
U G MED	Underground-mineable, medium
U G THK	Underground-mineable, thick
U G THN	Underground-mineable, thin
YEAR RVSD	Year of most recent revision

TABLE A-1 ESTABLISHED RESOURCES AND RESERVES OF COAL IN THE MOUNTAIN REGION OF ALBERTA, DETAILED TABLES
AT 31 DECEMBER 1988

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
A LA PECHE LAKE																
1		SURF	58/	4/	50	0.83	49/	3/	42	0.0	0.0	0.0	49/	3/	42	6
		U G MED	3/	1/	1	0.33	1/	0/	0	0.0	0.0	0.0	1/	0/	0	1
			61/	4/	53	0.81	50/	3/	43	0.0	0.0	0.0	50/	3/	43	6
		SURF	58/	4/	50	0.83	49/	3/	42	0.0	0.0	0.0	49/	3/	42	
		U G	3/	1/	1	0.33	1/	0/	0	0.0	0.0	0.0	1/	0/	0	
			61/	4/	53	0.81	50/	3/	43	0.0	0.0	0.0	50/	3/	43	
BANKHEAD																
1	BANKHEAD	U G THN	7/	1/	5	0.06	0/	0/	0	0.0	0.3	0.3	0/	0/	0	2
		U G MED	50/	5/	40	0.06	3/	0/	3	0.0	2.5	2.5	0/	0/	0	6
			57/	5/	47	0.06	3/	0/	3	0.0	2.9	2.9	0/	0/	0	8
2	JOHNSON LAKE	U G THN	6/	1/	5	0.03	0/	0/	0	0.0	0.1	0.1	0/	0/	0	2
		U G MED	2/	0/	2	0.03	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G THK	8/	1/	6	0.03	0/	0/	0	0.0	0.2	0.2	0/	0/	0	1
			16/	1/	14	0.02	0/	0/	0	0.0	0.3	0.3	0/	0/	0	4
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	73/	5/	62	0.05	3/	0/	3	0.0	3.2	3.2	0/	0/	0	
			73/	5/	62	0.05	3/	0/	3	0.0	3.2	3.2	0/	0/	0	
BEAVER CREEK																
1		SURF	27/	7/	14	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	9/	2/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	48/	12/	24	0.38	18/	5/	9	0.0	0.0	0.0	18/	5/	9	2
		U G THK	55/	14/	28	0.25	14/	3/	7	0.0	0.0	0.0	14/	3/	7	1
			140/	20/	100	0.21	32/	6/	21	0.0	0.0	0.0	32/	6/	21	4
		SURF	27/	7/	14	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	113/	18/	76	0.27	32/	6/	21	0.0	0.0	0.0	32/	6/	21	
			140/	20/	100	0.21	32/	6/	21	0.0	0.0	0.0	32/	6/	21	
BEAVER MINES																
1	NORTHERN END EAST	U G MED	14/	1/	12	0.02	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
			14/	1/	12	0.02	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
2	NORTHERN END WEST	U G MED	8/	0/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			8/	0/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
3	MILL CREEK	U G MED	2/	0/	2	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			2/	0/	2	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
4	SOUTHERN END	U G MED	11/	1/	10	0.38	4/	0/	4	0.0	0.1	0.1	4/	0/	4	1
			11/	1/	10	0.38	4/	0/	4	0.0	0.1	0.1	4/	0/	4	1
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	35/	1/	33	0.12	5/	0/	4	0.0	0.4	0.4	4/	0/	4	
			35/	1/	33	0.12	5/	0/	4	0.0	0.4	0.4	4/	0/	4	

MOUNTAIN REGION

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
50	3.7/0.21	6.6/ 0.2	1.53/0.02	6-107		24.5			
50	1.6/0.20	0.7/ 0.2	1.55/0.04	67- 84		23.7			
50	3.5/0.19	7.3/ 0.3	1.53/0.02	6-107	L-V/M-V	24.5	2	1987	
	3.7/0.21	6.6/ 0.2	1.53/0.02	6-107		24.5			
	1.6/0.20	0.7/ 0.2	1.54/0.04	67- 84		23.7			
:::::::	3.5/0.19	7.3/ 0.3	1.53/0.02	6-107		24.5		:::	
37	1.9/0.11	2.0/ 0.1	1.45/0.09	75-600		0.0			
37	14.1/0.85	2.0/ 0.1	1.45/0.09	75-600		0.0			
37	16.0/0.85	2.0/ 0.1	1.45/0.07	75-600	SA/L-V	0.0	1	1983	
31	2.7/0.16	1.3/ 0.1	1.45/0.09	75-600		0.0			
40	2.4/0.14	0.5/ 0.0	1.45/0.09	75-600		0.0			
31	3.6/0.22	1.3/ 0.1	1.45/0.09	75-600		0.0			
31	5.2/0.19	1.8/ 0.1	1.45/0.05	75-600	SA/L-V	0.0	1	1983	
	0.0/0.00	0.0/ 0.0	0.00/0.00			0.0			
	11.1/0.47	3.8/ 0.2	1.45/0.05	75-600		0.0			
:::::::	11.0/0.47	3.8/ 0.2	1.45/0.05	75-600		0.0		:::	
28	9.6/1.38	1.9/ 0.3	1.32/0.19			0.0			
28	1.4/0.20	4.4/ 0.6	1.32/0.19			0.0			
28	5.0/0.72	6.5/ 0.9	1.32/0.19			27.4			
28	8.2/1.18	4.5/ 0.6	1.32/0.19			27.4			
28	11.3/0.44	8.3/ 1.0	1.32/0.09	610	M-V	27.4	2		
	9.6/1.38	1.9/ 0.3	1.32/0.19			0.0			
	11.7/1.10	6.5/ 0.6	1.32/0.12			27.4			
:::::::	11.3/0.44	8.3/ 1.0	1.32/0.09	610		27.4		:::	
30	2.4/0.07	3.7/ 0.1	1.31/0.04	518		0.0			
30	2.4/0.07	3.7/ 0.1	1.31/0.04	518	H-V A	0.0	1		
30	1.8/0.05	3.0/ 0.1	1.33/0.04	457		0.0			
30	1.8/0.05	3.0/ 0.1	1.33/0.04	457	H-V A	0.0	1		
60	1.8/0.05	0.4/ 0.0	1.35/0.04	610		0.0			
60	1.8/0.05	0.4/ 0.0	1.35/0.04	610	H-V A	0.0	1		
30	2.4/0.07	2.9/ 0.1	1.36/0.04	610		26.9			
30	2.4/0.07	2.9/ 0.1	1.36/0.04	610	H-V A	26.9	2		
	0.0/0.00	0.0/ 0.0	0.00/0.00			0.0			
	2.2/0.04	10.1/ 0.2	1.33/0.02	610		26.9			
:::::::	2.2/0.04	10.1/ 0.2	1.33/0.02	610		26.9		:::	

TABLE A-1 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
BELLEVUE																
1	MORIN CREEK	SURF	1/	0/	1	0.82	1/	0/	1	0.0	<0.1	<0.1	1/	0/	1	1
		U G MED	17/	1/	15	0.41	7/	0/	6	0.0	0.9	0.9	6/	0/	5	1
			18/	1/	16	0.44	8/	0/	7	0.0	0.9	0.9	7/	0/	6	1
2	FRANK	SURF	15/	1/	14	0.11	1/	0/	1	0.0	1.5	1.5	0/	0/	0	3
		U G MED	78/	4/	70	0.11	8/	0/	8	0.0	7.7	7.7	0/	0/	0	2
		U G THK	44/	2/	40	0.11	4/	0/	4	0.0	4.4	4.4	0/	0/	0	1
			137/	5/	120	0.11	14/	0/	14	0.0	13.6	13.6	0/	0/	0	3
3	ROBERTSON PEAK	U G MED	36/	2/	33	0.20	7/	0/	6	0.0	2.4	2.4	5/	0/	4	1
			36/	2/	33	0.20	7/	0/	6	0.0	2.4	2.4	5/	0/	4	1
4	BYRON CREEK NORTH	U G THN	18/	1/	16	0.13	2/	0/	2	0.0	2.2	2.2	0/	0/	0	2
		U G MED	63/	3/	56	0.48	29/	1/	27	0.0	7.5	7.5	22/	1/	20	3
			81/	3/	74	0.39	31/	1/	29	0.0	9.7	9.7	22/	1/	20	5
5	BYRON CREEK SOUTH	U G THN	10/	0/	9	0.02	0/	0/	0	0.0	0.1	0.1	0/	0/	0	2
		U G MED	36/	2/	32	0.39	14/	1/	13	0.0	0.5	0.5	13/	1/	12	3
			46/	2/	42	0.31	14/	1/	13	0.0	0.7	0.7	13/	1/	12	5
		SURF	16/	1/	14	0.14	2/	0/	2	0.0	1.5	1.5	1/	0/	1	
		U G	302/	6/	289	0.24	71/	1/	69	0.0	25.7	25.7	46/	1/	43	
			317/	6/	305	0.23	74/	1/	71	0.0	27.2	27.2	46/	1/	44	
BLAIRMORE																
1	GRASSY MOUNTAIN	SURF	131/	7/	118	0.74	96/	5/	87	1.4	<0.1	1.4	95/	5/	85	6
		U G THN	10/	0/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	30/	2/	27	0.38	11/	1/	10	0.0	0.0	0.0	11/	1/	10	4
		U G THK	63/	3/	57	0.25	16/	1/	14	0.0	0.0	0.0	16/	1/	14	1
			234/	7/	219	0.52	123/	5/	113	1.4	<0.1	1.4	122/	5/	112	6
2	GREENHILL	U G MED	44/	2/	39	0.41	17/	1/	16	0.0	6.4	6.4	11/	1/	10	2
		U G THK	46/	2/	42	0.24	10/	0/	10	0.0	6.7	6.7	4/	0/	3	1
			90/	3/	83	0.31	27/	1/	26	0.0	13.1	13.1	14/	1/	13	3
3	LYONS CREEK	SURF	14/	1/	12	0.52	7/	0/	6	0.0	0.1	0.1	7/	0/	6	3
		U G MED	27/	1/	24	0.23	6/	0/	6	0.0	0.2	0.2	6/	0/	6	2
		U G THK	27/	1/	25	0.16	4/	0/	4	0.0	0.2	0.2	4/	0/	4	1
			68/	2/	64	0.26	18/	0/	17	0.0	0.4	0.4	17/	0/	16	3
4	ADANAC LIMB	SURF	68/	5/	58	0.85	58/	5/	49	0.0	0.0	0.0	58/	5/	49	6
		U G THN	2/	1/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	5/	1/	3	0.39	2/	0/	1	0.0	0.0	0.0	2/	0/	1	2
			75/	6/	63	0.79	60/	5/	50	0.0	0.0	0.0	60/	5/	50	6
5	MUTZ LIMB	SURF	29/	4/	22	0.85	25/	3/	19	0.0	0.0	0.0	25/	3/	19	4
			29/	4/	22	0.85	25/	3/	19	0.0	0.0	0.0	25/	3/	19	4
		SURF	242/	9/	223	0.77	186/	7/	171	1.4	0.1	1.5	184/	7/	169	
		U G	254/	5/	244	0.26	67/	1/	64	0.0	13.4	13.4	54/	1/	51	
			496/	11/	474	0.50	253/	7/	238	1.4	13.5	14.9	238/	7/	223	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
40	1.7/0.05	0.3/ 0.0	1.35/0.04			27.2			
40	1.7/0.05	5.7/ 0.2	1.35/0.04	610		27.2			
40	1.7/0.05	5.9/ 0.2	1.35/0.04	610	M-V	27.2	4		
25	9.9/0.29	1.0/ 0.0	1.33/0.04			0.0			
27	5.5/0.16	9.5/ 0.3	1.33/0.04			0.0			
25	4.4/0.13	6.9/ 0.2	1.33/0.04			0.0			
26	9.8/0.19	9.5/ 0.2	1.33/0.03	610	M-V/H-V A	0.0	4&1		CATEGORY 4 - 10%
35	2.6/0.08	8.4/ 0.2	1.35/0.04	610		27.3			
35	2.6/0.08	8.4/ 0.2	1.35/0.04	610	H-V A	27.3	4&1		CATEGORY 4 - 45 %
47	2.1/0.06	4.5/ 0.1	1.32/0.04			0.0			
44	7.6/0.22	4.4/ 0.1	1.32/0.04			27.3			
45	9.8/0.23	4.5/ 0.1	1.32/0.03	610	H-V A	27.3	4		
30	2.1/0.06	3.0/ 0.1	1.32/0.04			0.0			
32	7.6/0.22	3.1/ 0.1	1.32/0.04			27.9			
31	9.8/0.24	3.1/ 0.1	1.32/0.03	610	H-V A	27.9	4		
	8.1/0.22	1.3/ 0.0	1.33/0.04			27.2			
	5.9/0.07	31.1/ 0.4	1.33/0.02	610		27.5			
::::::::	6.2/0.07	31.4/ 0.4	1.33/0.01	610		27.5			::
20	15.5/0.45	6.0/ 0.2	1.32/0.04			27.0			
33	1.3/0.04	4.7/ 0.1	1.32/0.04			0.0			
33	4.1/0.12	4.7/ 0.1	1.32/0.04			27.0			
33	8.5/0.25	4.7/ 0.1	1.32/0.04			27.0			
26	14.8/0.25	10.7/ 0.2	1.32/0.02	610	M-V	27.0	4		
40	5.8/0.17	4.4/ 0.1	1.32/0.04			28.3			
40	6.1/0.18	4.4/ 0.1	1.32/0.04			28.3			
40	11.9/0.24	4.4/ 0.1	1.32/0.03	610	M-V	28.3	4&1		CATEGORY 4 - 80%
45	11.9/0.35	0.6/ 0.0	1.32/0.04			28.0			
45	5.8/0.17	2.5/ 0.1	1.32/0.04			28.0			
45	6.1/0.18	2.4/ 0.1	1.32/0.04			28.0			
45	11.9/0.20	3.1/ 0.1	1.32/0.02	610	M-V	28.0	4&1		CATEGORY 4 - 60%
45	11.0/0.77	3.0/ 0.1	1.47/0.02	28-266		26.6			
45	3.0/0.83	0.4/ 0.1	1.50/0.07	270-330		0.0			
45	3.3/0.45	0.7/ 0.1	1.47/0.03	158-202		26.6			
45	9.8/0.72	3.7/ 0.1	1.47/0.02	28-330	M-V	26.6	4	1982	
50	10.2/1.15	1.3/ 0.1	1.44/0.02	60-259		28.4			
50	10.2/1.15	1.3/ 0.1	1.44/0.02	60-259	M-V/H-V A	28.4	4	1982	
	13.1/0.38	10.9/ 0.2	1.38/0.02	266		27.1			
	12.1/0.15	12.3/ 0.1	1.32/0.02	330		27.5			
::::::::	12.6/0.20	23.1/ 0.2	1.35/0.01	610		27.2			::

TABLE A-1 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES							MEGATONNES						
BRULE																
1	SUPPLY CREEK	U G THN	14/	1/	12	0.03	0/	0/	0	0.0	0.4	0.4	0/	0/	0	2
		U G MED	41/	2/	37	0.22	9/	0/	8	0.0	1.3	1.3	7/	0/	7	3
			54/	2/	50	0.17	9/	0/	8	0.0	1.7	1.7	7/	0/	7	5
2	OLDHOUSE CREEK	U G THN	16/	1/	14	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
			16/	1/	14	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
3	PRINE CREEK	SURF	3/	0/	3	0.87	3/	0/	3	0.0	0.0	0.0	3/	0/	3	2
		U G THN	2/	0/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	9/	0/	8	0.39	4/	0/	3	0.0	0.0	0.0	4/	0/	3	2
			14/	1/	13	0.44	6/	0/	6	0.0	0.0	0.0	6/	0/	6	3
4	WILDHORSE LAKE	U G MED	2/	0/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			2/	0/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		SURF	3/	0/	3	0.87	3/	0/	3	0.0	0.0	0.0	3/	0/	3	
		U G	82/	2/	78	0.15	13/	0/	12	0.0	1.7	1.7	11/	0/	10	
			86/	2/	81	0.18	15/	0/	15	0.0	1.7	1.7	14/	0/	13	
CADOMIN-LUSCAR																
1	GREGG-DRINNAN	SURF	102/	3/	95	0.83	83/	2/	79	13.7	0.5	14.2	69/	2/	64	5
		U G THN	1/	0/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	1/	0/	0	0.33	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THK	7/	0/	7	0.08	1/	0/	1	0.0	0.0	0.0	1/	0/	1	1
			110/	4/	103	0.77	83/	2/	79	13.7	0.5	14.2	69/	2/	65	5
2	LUSCAR	SURF	107/	4/	99	0.78	80/	2/	77	39.3	5.1	44.4	36/	2/	33	6
		U G THK	58/	3/	53	0.24	14/	1/	13	0.0	0.8	0.8	13/	1/	12	1
			165/	5/	155	0.59	95/	2/	91	39.3	5.9	45.2	49/	2/	46	6
3	CADOMIN WEST	U G THK	40/	2/	36	0.26	9/	0/	9	0.0	7.7	7.7	2/	0/	2	1
			40/	2/	36	0.26	9/	0/	9	0.0	7.7	7.7	2/	0/	2	1
4	CADOMIN EAST	SURF	2/	0/	2	0.84	1/	0/	1	1.3	0.0	1.3	0/	0/	0	1
		U G THK	30/	2/	27	0.10	3/	0/	3	0.0	1.1	1.1	2/	0/	2	1
			32/	1/	29	0.14	4/	0/	4	1.3	1.1	2.3	2/	0/	2	1
		SURF	210/	5/	199	0.80	164/	3/	159	54.3	5.6	59.9	105/	3/	99	
		U G	137/	4/	129	0.20	27/	1/	26	0.0	9.5	9.5	18/	1/	16	
			347/	7/	334	0.56	192/	3/	186	54.3	15.1	69.4	122/	3/	117	
CANMORE																
1	GEORGETOWN	SURF	1/	0/	1	0.91	1/	0/	1	1.0	0.0	1.0	0/	0/	0	1
		U G THN	70/	3/	63	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	12
		U G MED	156/	8/	140	0.00	0/	0/	0	0.0	0.1	0.1	0/	0/	0	11
		U G THK	36/	2/	33	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			263/	9/	246	0.00	1/	0/	1	1.0	0.2	1.2	0/	0/	0	24
2	CANMORE-WEST WIND	SURF	0/	0/	0	0.67	0/	0/	0	0.2	0.0	0.2	0/	0/	0	1
		U G THN	132/	7/	119	0.03	4/	0/	4	0.0	3.5	3.5	0/	0/	0	10
		U G MED	410/	20/	369	0.37	152/	7/	138	0.0	10.8	10.8	141/	7/	127	11
		U G THK	13/	1/	11	0.25	3/	0/	3	0.0	0.3	0.3	3/	0/	3	1
			555/	22/	512	0.28	159/	7/	145	0.2	14.7	14.9	144/	7/	130	22

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
10	2.0/0.06	5.1/ 0.1	1.31/0.04			0.0			
15	5.9/0.17	5.1/ 0.1	1.31/0.04			27.7			
14	7.9/0.18	5.1/ 0.1	1.31/0.03	244	M-V	27.7	4&1		CATEGORY 4 - 55%
20	2.4/0.07	4.6/ 0.1	1.32/0.04	610		0.0			
20	2.4/0.07	4.6/ 0.1	1.32/0.04	610	M-V	0.0	4		
5	4.9/0.14	0.5/ 0.0	1.33/0.04			27.7			
5	0.2/0.03	1.4/ 0.0	1.33/0.04			0.0			
5	4.9/0.14	1.4/ 0.0	1.33/0.04			27.7			
5	5.8/0.12	1.9/ 0.0	1.33/0.03	366	L-V	27.7	4		
68	3.2/0.09	0.1/ 0.0	1.32/0.04	152		0.0			
68	3.2/0.09	0.1/ 0.0	1.32/0.04	152	M-V	0.0	1		
	4.9/0.14	0.5/ 0.0	1.33/0.04			27.7			
	5.2/0.09	11.2/ 0.2	1.31/0.02	610		27.7			
::::::::	5.3/0.08	11.6/ 0.2	1.32/0.02	610		27.7			::
41	11.3/0.26	4.5/ 0.1	1.51/0.01	2-313		25.2			
36	1.5/0.05	0.2/ 0.0	1.51/0.10	10-346		0.0			
36	1.9/0.12	0.1/ 0.0	1.54/0.17	57-342		23.7			
55	9.8/0.32	0.3/ 0.0	1.50/0.01	100-323		25.2			
42	11.0/0.24	4.9/ 0.1	1.51/0.01	2-346	L-V/M-V	25.2	4	1988	MINE #1770-PRODUCING;DIPS UP TO 90 DEG
39	13.6/0.34	4.3/ 0.1	1.42/0.02	2-317		26.6			
38	11.9/0.35	2.9/ 0.1	1.31/0.04	180-351		27.7			
39	12.8/0.32	7.3/ 0.1	1.38/0.02	2-317	L-V/M-V	27.0	4	1987	MINE #1768-PRODUCING;DIPS UP TO 90 DEG
69	9.9/0.29	1.1/ 0.0	1.31/0.04	610		27.7			
69	9.9/0.29	1.1/ 0.0	1.31/0.04	610	M-V	27.7	4		
52	12.0/0.35	0.1/ 0.0	1.45/0.04			0.0			
52	7.4/0.21	1.9/ 0.1	1.35/0.04	610		27.2			
52	7.6/0.21	1.9/ 0.1	1.36/0.04	610	M-V	27.2	4		
	12.4/0.21	8.8/ 0.1	1.46/0.01	317		25.7			
	9.7/0.16	6.4/ 0.1	1.33/0.02	610		27.5			
::::::::	11.1/0.16	15.2/ 0.2	1.41/0.01	610		26.0			::
8	1.2/0.03	0.8/ 0.0	1.32/0.04			0.0			
8	10.5/0.30	5.1/ 0.1	1.32/0.04			0.0			
8	22.6/0.64	5.1/ 0.1	1.32/0.04			0.0			
8	5.3/0.15	5.1/ 0.1	1.32/0.04			0.0			
8	23.3/0.44	8.5/ 0.2	1.32/0.03	610	SA/L-V	0.0	1		DIPS RANGE FROM 0 TO 90 DEGREES
8	1.7/0.05	0.1/ 0.0	1.32/0.04			0.0			
8	5.2/0.15	19.2/ 0.6	1.32/0.04			0.0			
8	14.2/0.41	21.9/ 0.6	1.32/0.04			28.5			
8	5.5/0.16	1.7/ 0.1	1.32/0.04			28.5			
8	15.2/0.33	27.3/ 0.6	1.32/0.03	610	SA/L-V	28.5	4		DIPS OF UP TO 90 DEGREES

TABLE A-1 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SNS USED
			MEGATONNES				MEGATONNES									
CANMORE																
3	MT. ALLAN	U G THN	6/	0/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	35/	2/	31	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THK	11/	1/	10	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			52/	2/	48	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		SURF	2/	0/	1	0.88	1/	0/	1	1.2	0.0	1.2	0/	0/	0	
		U G	869/	23/	822	0.18	159/	7/	145	0.0	14.8	14.8	144/	7/	130	
			870/	23/	823	0.18	160/	7/	146	1.2	14.8	16.0	144/	7/	130	
COLEMAN																
1	VICARY CREEK	SURF	0/	0/	0	0.72	0/	0/	0	0.2	0.0	0.2	0/	0/	0	1
		U G MED	50/	3/	45	0.44	22/	1/	20	0.0	2.7	2.7	19/	1/	17	1
		U G THK	91/	5/	82	0.21	19/	1/	17	0.0	4.8	4.8	14/	1/	13	1
			142/	5/	131	0.29	41/	1/	39	0.2	7.5	7.7	33/	1/	31	2
2	MCGILLIVRAY	SURF	0/	0/	0	0.92	0/	0/	0	0.4	0.0	0.4	0/	0/	0	1
		U G THN	33/	2/	30	0.11	3/	0/	3	0.0	3.4	3.4	0/	0/	0	2
		U G MED	42/	2/	38	0.26	10/	0/	10	0.0	4.3	4.3	6/	0/	5	1
		U G THK	161/	8/	145	0.21	32/	1/	30	0.0	16.6	16.6	15/	1/	14	2
			236/	8/	219	0.20	46/	1/	44	0.4	24.3	24.6	21/	1/	19	5
3	WILLOUGHBY RIDGE N	SURF	18/	2/	14	0.86	15/	2/	12	0.0	0.0	0.0	15/	2/	12	7
		U G THN	4/	0/	3	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	12/	1/	9	0.38	5/	0/	4	0.0	0.0	0.0	5/	0/	4	4
		U G THK	7/	1/	5	0.24	2/	0/	1	0.0	0.0	0.0	2/	0/	1	1
			40/	2/	35	0.51	21/	2/	18	0.0	0.0	0.0	21/	2/	18	7
4	WILLOUGHBY RIDGE S	SURF	21/	3/	15	0.85	18/	2/	13	0.0	<0.1	<0.1	18/	2/	13	5
		U G THN	2/	0/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	5/	1/	3	0.38	2/	0/	1	0.0	0.0	0.0	2/	0/	1	2
		U G THK	5/	1/	3	0.24	1/	0/	1	0.0	0.0	0.0	1/	0/	1	1
			32/	3/	26	0.60	21/	3/	15	0.0	<0.1	<0.1	21/	3/	16	5
		SURF	39/	3/	32	0.85	33/	3/	27	0.6	<0.1	0.6	33/	3/	27	
		U G	410/	10/	390	0.24	95/	2/	92	0.0	31.7	31.7	63/	2/	60	
			449/	11/	428	0.28	128/	3/	122	0.6	31.7	32.3	96/	3/	89	
COSTIGAN																
1		SURF	58/	10/	37	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G THN	183/	17/	151	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		U G MED	38/	4/	30	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			280/	20/	240	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	9
		SURF	58/	10/	37	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	222/	17/	188	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			280/	20/	240	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
HIGHWOOD FORD																
1		U G THN	2/	0/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	38/	2/	34	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	5
		U G THK	37/	2/	34	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	5
			77/	3/	72	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	6
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	77/	3/	72	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			77/	3/	72	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED M V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
15	1.9/0.06	2.4/ 0.1	1.33/0.04			0.0			
15	5.8/0.17	4.3/ 0.1	1.33/0.04			0.0			
15	5.2/0.15	1.6/ 0.0	1.33/0.04			0.0			
15	8.8/0.18	4.3/ 0.1	1.33/0.03	305	SA/L-V	0.0	4		
	1.3/0.03	0.9/ 0.0	1.31/0.03			0.0			
	16.6/0.26	39.2/ 0.6	1.32/0.02			28.5			
::::::::	16.2/0.25	40.1/ 0.6	1.32/0.02	610		28.5			::
45	1.3/0.04	0.1/ 0.0	1.32/0.04			0.0			
45	3.0/0.09	8.9/ 0.3	1.32/0.04			23.7			
45	5.5/0.16	8.9/ 0.3	1.32/0.04			23.7			
45	8.5/0.18	8.9/ 0.2	1.32/0.03	457	M-V	23.7	4		
30	4.7/0.14	0.1/ 0.0	1.32/0.04			0.0			
30	1.7/0.05	12.8/ 0.4	1.32/0.04			0.0			
30	2.1/0.06	12.8/ 0.4	1.32/0.04			26.4			
30	8.2/0.24	12.8/ 0.4	1.32/0.04			26.4			
30	12.0/0.25	12.8/ 0.3	1.32/0.03	610	M-V	26.4	4,2&1		CATEGORY 2 - 20%, CATEGORY 4 - 45%
40	12.8/1.18	0.7/ 0.0	1.53/0.03	23-234		24.4			
40	6.5/0.31	0.7/ 0.0	1.53/0.03	247-359		0.0			
40	7.1/0.65	0.8/ 0.0	1.55/0.03	56-415		23.3			
40	5.5/0.65	0.6/ 0.0	1.48/0.06	82-592		26.5			
40	12.6/0.62	1.6/ 0.0	1.53/0.03	23-592	M-V	24.4	2&4	1982	95% OF RESERVES IN CATEGORY 4
35	8.5/1.05	1.3/ 0.1	1.49/0.04	57-169		25.8			
35	1.2/0.18	0.8/ 0.1	1.55/0.09	147-202		0.0			
35	2.4/0.30	1.0/ 0.1	1.61/0.09	201-256		20.5			
35	6.1/0.26	0.4/ 0.1	1.47/0.04	137-266		26.9			
35	5.4/0.47	3.2/ 0.1	1.51/0.04	57-266	M-V	25.1	4	1982	
	9.3/0.72	2.2/ 0.1	1.50/0.02	234		25.2			
	9.9/0.14	24.4/ 0.3	1.34/0.02	592		24.6			
::::::::	9.9/0.15	26.5/ 0.4	1.35/0.02	610		24.7			::
8	4.7/0.80	8.1/ 0.4	1.54/0.03	2-215		0.0			
8	6.6/0.55	18.7/ 0.5	1.46/0.02	20-455		0.0			
8	2.4/0.22	9.9/ 0.4	1.58/0.06	45-460		0.0			
8	8.6/0.55	21.6/ 0.6	1.49/0.03	2-460	M-V	0.0	1	1982	
	4.7/0.80	8.1/ 0.4	1.54/0.03	2-215		0.0			
	7.9/0.56	18.7/ 0.5	1.48/0.02	20-460		0.0			
::::::::	8.6/0.55	21.6/ 0.6	1.49/0.03	2-460		0.0			::
40	1.2/0.03	0.9/ 0.0	1.32/0.04			0.0			
40	5.9/0.17	3.8/ 0.1	1.32/0.04			0.0			
40	7.0/0.20	3.1/ 0.1	1.32/0.04			0.0			
40	8.8/0.18	5.1/ 0.1	1.32/0.03	610	L-V/M-V	0.0	2		
	0.0/0.00	0.0/ 0.0	0.00/0.00			0.0			
	8.8/0.18	5.1/ 0.1	1.32/0.03			0.0			
::::::::	8.8/0.18	5.1/ 0.1	1.32/0.03	610		0.0			::

TABLE A-1 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
KAKWA RIVER																
1	STINKING CREEK	SURF	61/	3/	55	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THK	181/	9/	165	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			242/	9/	223	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
2	DEAD HORSE MEADOWS	SURF	33/	2/	29	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	12/	1/	11	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	47/	2/	42	0.20	9/	0/	8	0.0	0.0	0.0	9/	0/	8	3
		U G THK	54/	3/	48	0.13	7/	0/	6	0.0	0.0	0.0	7/	0/	6	2
			145/	4/	137	0.11	16/	1/	15	0.0	0.0	0.0	16/	1/	15	6
3	KAKWA FALLS	U G THN	80/	4/	72	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	104/	5/	93	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G THK	37/	2/	33	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			220/	7/	207	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		SURF	94/	3/	87	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	514/	12/	490	0.03	16/	1/	15	0.0	0.0	0.0	16/	1/	15	
			607/	12/	583	0.03	16/	1/	15	0.0	0.0	0.0	16/	1/	15	
KANANASKIS																
1	STORM CREEK NORTH	U G MED	18/	1/	16	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			18/	1/	16	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
2	STORM CREEK SOUTH	U G THN	10/	0/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	31/	2/	28	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THK	31/	2/	28	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			72/	2/	68	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	90/	2/	85	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			90/	2/	85	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
MOBERLY CREEK																
1		SURF	43/	2/	38	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	135/	7/	122	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THK	248/	12/	223	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			426/	14/	398	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		SURF	43/	2/	38	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	384/	14/	355	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			426/	14/	398	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
MOUNTAIN PARK																
1	PROSPECT CREEK	SURF	3/	0/	3	0.84	3/	0/	2	0.0	<0.1	<0.1	3/	0/	2	2
		U G THK	7/	0/	6	0.24	2/	0/	2	0.0	<0.1	<0.1	2/	0/	2	1
			10/	0/	9	0.42	4/	0/	4	0.0	<0.1	<0.1	4/	0/	4	2
2	THORTON CREEK	SURF	41/	2/	36	0.86	34/	2/	31	1.0	0.9	1.9	33/	2/	29	2
		U G MED	8/	0/	7	0.41	3/	0/	3	0.0	0.4	0.4	3/	0/	3	1
		U G THK	88/	4/	79	0.18	15/	1/	14	0.0	4.1	4.1	11/	1/	10	1
			136/	5/	126	0.39	53/	2/	49	1.0	5.4	6.4	46/	2/	43	2
		SURF	44/	2/	40	0.86	37/	2/	34	1.0	0.9	1.9	35/	2/	32	
		U G	103/	4/	94	0.20	20/	1/	19	0.0	4.5	4.5	15/	1/	14	
			146/	5/	136	0.39	57/	2/	54	1.0	5.4	6.4	51/	2/	47	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
38	15.2/0.44	2.4/ 0.1	1.31/0.04			0.0			
38	15.2/0.44	7.2/ 0.2	1.31/0.04			0.0			
38	15.2/0.35	9.6/ 0.2	1.31/0.03	457	L-V	0.0	1		
38	10.4/0.30	1.9/ 0.1	1.32/0.04			0.0			
38	2.1/0.06	3.4/ 0.1	1.32/0.04			0.0			
38	5.5/0.16	5.1/ 0.1	1.32/0.04			28.1			
38	6.5/0.19	4.9/ 0.1	1.32/0.04			28.1			
38	9.0/0.14	9.6/ 0.2	1.32/0.02	457	M-V	28.1	2&1		CATEGORY 2 - 55%
3	4.0/0.12	15.1/ 0.4	1.32/0.04			0.0			
3	11.9/0.35	6.6/ 0.2	1.32/0.04			0.0			
3	5.0/0.14	5.5/ 0.2	1.32/0.04			0.0			
3	7.1/0.13	23.5/ 0.4	1.32/0.02	305	M-V B	0.0	1		
	13.1/0.28	4.3/ 0.1	1.31/0.03			0.0			
	9.2/0.12	38.4/ 0.5	1.32/0.02			28.1			
::::::::	9.6/0.11	42.7/ 0.5	1.32/0.02	457		28.1			::
40	1.8/0.05	5.5/ 0.2	1.35/0.04	457		0.0			
40	1.8/0.05	5.5/ 0.2	1.35/0.04	457	L-V	0.0	2&1		
55	1.2/0.03	3.4/ 0.1	1.32/0.04			0.0			
55	4.0/0.12	3.4/ 0.1	1.32/0.04			0.0			
55	4.0/0.12	3.4/ 0.1	1.32/0.04			0.0			
55	9.1/0.16	3.4/ 0.1	1.32/0.02	488	L-V	0.0	2		
	0.0/0.00	0.0/ 0.0	0.00/0.00			0.0			
	5.1/0.08	9.0/ 0.1	1.33/0.02	457		0.0			
::::::::	5.1/0.08	9.0/ 0.1	1.33/0.02	488		0.0			::
40	10.4/0.30	2.4/ 0.1	1.32/0.04			0.0			
40	3.2/0.11	21.4/ 0.6	1.32/0.04			0.0			
40	6.7/0.19	21.4/ 0.6	1.32/0.04			0.0			
40	10.4/0.20	23.8/ 0.5	1.32/0.03	610	M-V B	0.0	1		
	10.4/0.30	2.4/ 0.1	1.32/0.04			0.0			
	10.4/0.22	21.4/ 0.5	1.32/0.03			0.0			
::::::::	10.4/0.20	23.8/ 0.5	1.32/0.03	610		0.0			::
28	10.4/0.30	0.2/ 0.0	1.32/0.04			28.0			
28	7.5/0.22	0.6/ 0.0	1.32/0.04			28.0			
28	8.5/0.18	0.8/ 0.0	1.32/0.03	338	M-V	28.0	4		
53	7.2/0.21	2.5/ 0.1	1.35/0.04			28.0			
53	1.5/0.04	2.2/ 0.1	1.35/0.04			28.0			
53	8.5/0.25	4.6/ 0.1	1.35/0.04			28.0			
53	7.2/0.15	8.4/ 0.2	1.35/0.03	451	M-V/H-V A	28.0	4		
	7.4/0.20	2.7/ 0.1	1.35/0.04			28.0			
	7.3/0.18	6.5/ 0.2	1.35/0.03			28.0			
::::::::	7.3/0.14	9.2/ 0.2	1.35/0.03	451		28.0			::

TABLE A-1 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
NORDEGG																
1		SURF	36/	2/	32	0.04	1/	0/	1	0.3	0.9	1.2	0/	0/	0	7
		U G THN	8/	0/	7	0.04	0/	0/	0	0.0	0.3	0.3	0/	0/	0	2
		U G MED	242/	12/	217	0.36	85/	4/	77	0.0	8.1	8.1	77/	4/	69	7
			285/	12/	261	0.30	87/	4/	79	0.3	9.3	9.6	77/	4/	69	7
		SURF	36/	2/	32	0.04	1/	0/	1	0.3	0.9	1.2	0/	0/	0	
		U G	250/	12/	225	0.34	85/	4/	78	0.0	8.4	8.4	77/	4/	69	
			285/	12/	261	0.30	87/	4/	79	0.3	9.3	9.6	77/	4/	69	
OLDMAN RIVER																
1		SURF	203/	10/	182	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	86/	4/	77	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	145/	7/	130	0.38	55/	3/	49	0.0	0.0	0.0	55/	3/	49	4
		U G THK	207/	10/	186	0.25	52/	3/	47	0.0	0.0	0.0	52/	3/	47	2
			640/	17/	607	0.16	107/	4/	99	0.0	0.0	0.0	107/	4/	99	8
		SURF	203/	10/	182	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	438/	13/	411	0.24	107/	4/	99	0.0	0.0	0.0	107/	4/	99	
			640/	17/	607	0.16	107/	4/	99	0.0	0.0	0.0	107/	4/	99	
POCATERRA																
1		U G THN	8/	0/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	28/	1/	25	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THK	95/	5/	86	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			132/	5/	122	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	132/	5/	122	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			132/	5/	122	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
RAM RIVER																
1	RAM NORTH	SURF	74/	4/	66	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G THN	104/	5/	93	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	160/	6/	147	0.38	61/	2/	56	0.0	0.0	0.0	61/	2/	56	2
		U G THK	26/	3/	19	0.27	7/	1/	5	0.0	0.0	0.0	7/	1/	5	1
			363/	13/	337	0.19	68/	3/	63	0.0	<0.1	<0.1	68/	3/	63	4
2	FALL CREEK EAST	SURF	32/	2/	27	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	53/	3/	47	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	16/	2/	13	0.37	6/	1/	5	0.0	0.0	0.0	6/	1/	5	2
			81/	5/	72	0.07	6/	1/	5	0.0	0.0	0.0	6/	1/	5	5
3	FALL CREEK WEST	U G MED	53/	3/	48	0.38	20/	1/	18	0.0	0.0	0.0	20/	1/	18	3
			53/	3/	48	0.38	20/	1/	18	0.0	0.0	0.0	20/	1/	18	3
		SURF	106/	6/	94	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
		U G	392/	13/	365	0.24	94/	3/	88	0.0	0.0	0.0	94/	3/	88	
			497/	14/	468	0.19	94/	3/	88	0.0	<0.1	<0.1	94/	3/	88	
SAVANNA CREEK																
1	PASQUE MTN. NORTH	U G MED	11/	1/	10	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THK	45/	2/	41	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			56/	2/	52	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
16	15.8/0.46	1.7/ 0.0	1.30/0.04			0.0			
16	2.0/0.06	3.0/ 0.1	1.30/0.04			0.0			
16	15.8/0.46	11.3/ 0.3	1.30/0.04			28.4			
16	14.2/0.41	14.8/ 0.4	1.30/0.02	579	L-V	28.4	2		
	15.8/0.46	1.7/ 0.0	1.30/0.04			0.0			
	14.0/0.39	13.2/ 0.4	1.30/0.04			28.4			
::::::::	14.2/0.41	14.8/ 0.4	1.30/0.02	579		28.4			::
38	12.3/0.36	9.9/ 0.3	1.31/0.04			0.0			
37	4.6/0.13	11.3/ 0.3	1.31/0.04			0.0			
38	5.8/0.17	15.1/ 0.4	1.31/0.04			27.2			
38	9.0/0.26	13.9/ 0.4	1.31/0.04			27.2			
38	12.3/0.18	31.3/ 0.5	1.31/0.02	610	M-V	27.2	2		
	12.3/0.36	9.9/ 0.3	1.31/0.04			0.0			
	12.3/0.22	21.4/ 0.4	1.31/0.02			27.2			
::::::::	12.3/0.18	31.3/ 0.5	1.31/0.02	610		27.2			::
55	1.2/0.03	2.9/ 0.1	1.33/0.04			0.0			
55	4.0/0.12	3.0/ 0.1	1.33/0.04			0.0			
55	13.9/0.40	3.0/ 0.1	1.33/0.04			0.0			
55	19.0/0.42	3.0/ 0.1	1.33/0.03	610	L-V	0.0	1		
	0.0/0.00	0.0/ 0.0	0.00/0.00			0.0			
	19.0/0.42	3.0/ 0.1	1.33/0.03			0.0			
::::::::	19.0/0.42	3.0/ 0.1	1.33/0.03	610		0.0			::
12	2.7/0.13	19.2/ 0.4	1.42/0.03	3- 59		0.0			
11	2.0/0.08	35.3/ 0.7	1.47/0.02	61-302		0.0			
12	3.2/0.10	34.3/ 0.7	1.42/0.03	60-312		28.6			
13	5.0/0.52	3.5/ 0.2	1.41/0.05	66-247		29.0			
12	5.1/0.13	48.4/ 1.0	1.44/0.02	3-312	M-V	28.6	2	1984	
10	3.8/0.23	5.4/ 0.2	1.54/0.04	3- 75		0.0			
11	3.3/0.29	6.3/ 0.2	1.59/0.04	23-277		0.0			
11	2.5/0.20	4.1/ 0.1	1.52/0.06	58-205		28.1			
11	5.4/0.25	9.5/ 0.2	1.55/0.03	3-277	M-V	28.1	2	1984	
15	4.6/0.13	7.7/ 0.2	1.45/0.04	244		28.8			
15	4.6/0.13	7.7/ 0.2	1.45/0.04	244	M-V	28.8	2		
	2.9/0.11	24.7/ 0.4	1.46/0.02	3- 75		0.0			
	5.4/0.11	49.3/ 0.6	1.46/0.01	312		28.6			
::::::::	5.1/0.11	65.6/ 1.0	1.46/0.02	312		28.6			::
60	2.4/0.07	1.7/ 0.1	1.32/0.04			0.0			
60	10.2/0.30	1.7/ 0.0	1.32/0.04			0.0			
60	12.6/0.30	1.7/ 0.0	1.32/0.03	610	L-V/M-V	0.0	2		

TABLE A-1 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
SAVANNA CREEK																
2	PASQUE MTN. SOUTH	SURF	13/	1/	11	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G THN	5/	0/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	16/	1/	15	0.19	3/	0/	3	0.0	0.0	0.0	3/	0/	3	2
		U G THK	38/	2/	34	0.12	5/	0/	4	0.0	0.0	0.0	5/	0/	4	2
			72/	2/	67	0.11	8/	0/	7	0.0	0.0	0.0	8/	0/	7	6
3	WILKINSON CREEK	U G THN	14/	1/	13	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	23/	1/	21	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			37/	1/	35	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		SURF	13/	1/	11	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	152/	3/	145	0.05	8/	0/	7	0.0	0.0	0.0	8/	0/	7	
			165/	4/	158	0.05	8/	0/	7	0.0	0.0	0.0	8/	0/	7	
SEVEN MILE CREEK																
1		SURF	5/	0/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	13/	1/	11	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	101/	5/	91	0.38	38/	2/	34	0.0	0.0	0.0	38/	2/	34	3
			118/	5/	108	0.32	38/	2/	34	0.0	0.0	0.0	38/	2/	34	4
		SURF	5/	0/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	113/	5/	103	0.33	38/	2/	34	0.0	0.0	0.0	38/	2/	34	
			118/	5/	108	0.32	38/	2/	34	0.0	0.0	0.0	38/	2/	34	
SMOKY RIVER																
1	CAW CREEK	SURF	215/	5/	206	0.89	191/	4/	183	<0.1	0.0	<0.1	191/	4/	183	5
			215/	5/	206	0.89	191/	4/	183	<0.1	0.0	<0.1	191/	4/	183	5
2	GRIZZLY CREEK	SURF	33/	2/	29	0.85	28/	2/	25	0.0	0.0	0.0	28/	2/	25	2
		U G THK	133/	9/	116	0.25	33/	2/	29	0.0	0.0	0.0	33/	2/	29	2
			167/	9/	148	0.37	62/	3/	55	0.0	0.0	0.0	62/	3/	55	2
3	NO. 12 MINE	SURF	28/	2/	25	0.89	25/	1/	22	0.6	0.0	0.6	24/	1/	21	7
		U G THN	8/	1/	7	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	5/	0/	4	0.36	2/	0/	2	0.0	0.0	0.0	2/	0/	2	3
		U G THK	16/	1/	14	0.23	4/	0/	3	0.0	0.0	0.0	4/	0/	3	1
			56/	2/	52	0.52	30/	1/	27	0.6	0.0	0.6	30/	1/	27	7
4	SHEEP-BEAVERDAM	SURF	138/	4/	129	0.71	96/	2/	91	18.1	4.9	23.0	73/	2/	69	6
		U G THN	9/	0/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	31/	1/	29	0.34	11/	0/	10	0.0	0.0	0.0	11/	0/	10	3
		U G THK	61/	1/	58	0.24	15/	0/	14	0.0	0.0	0.0	15/	0/	14	1
			238/	5/	229	0.51	121/	2/	117	18.1	4.9	23.0	99/	2/	94	6
5	SMOKY-SHEEP	SURF	11/	1/	10	0.89	9/	0/	9	4.4	0.0	4.4	5/	0/	5	1
		U G MED	42/	2/	38	0.44	18/	1/	17	0.0	3.4	3.4	15/	1/	13	2
		U G THK	101/	5/	91	0.26	25/	1/	23	0.0	7.5	7.5	18/	1/	16	1
			154/	6/	143	0.35	53/	1/	50	4.4	10.9	15.2	37/	1/	35	3
6	NO. 5 MINE	U G THK	29/	1/	27	0.26	7/	0/	7	0.0	2.5	2.5	5/	0/	4	1
			29/	1/	27	0.26	7/	0/	7	0.0	2.5	2.5	5/	0/	4	1

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
52	13.7/0.40	0.4/ 0.0	1.31/0.04			0.0			
53	1.2/0.04	1.9/ 0.1	1.31/0.04			0.0			
52	4.0/0.12	1.9/ 0.1	1.31/0.04			27.5			
53	9.1/0.26	1.9/ 0.1	1.31/0.04			27.5			
52	14.0/0.25	2.4/ 0.0	1.31/0.02	610	L-V/M-V	27.5	2		
45	3.7/0.11	2.1/ 0.1	1.33/0.04			0.0			
45	5.8/0.17	2.1/ 0.1	1.33/0.04			0.0			
45	9.4/0.20	2.1/ 0.0	1.33/0.03	396	L-V/M-V	0.0	2		
	13.7/0.40	0.4/ 0.0	1.31/0.04			0.0			
	12.1/0.16	5.8/ 0.1	1.32/0.02			27.5			
::::::::	12.2/0.15	6.2/ 0.1	1.32/0.02	610		27.5			::
20	4.0/0.12	0.8/ 0.0	1.30/0.04			0.0			
20	1.2/0.03	7.6/ 0.2	1.30/0.04			0.0			
20	5.8/0.17	12.5/ 0.4	1.30/0.04			28.2			
20	5.9/0.15	14.5/ 0.4	1.30/0.03	305	M-V	28.2	2		
	4.0/0.12	0.8/ 0.0	1.30/0.04			0.0			
	6.0/0.16	13.7/ 0.4	1.30/0.03			28.2			
::::::::	5.9/0.15	14.5/ 0.4	1.30/0.03	305		28.2			::
25	11.1/0.22	12.2/ 0.1	1.45/0.00	27-212		28.5			
25	11.1/0.22	12.2/ 0.1	1.45/0.00	27-212	L-V	28.5	4	1985	
45	11.6/0.41	1.4/ 0.1	1.44/0.01	2-160		28.9			
45	11.6/0.52	5.7/ 0.3	1.44/0.01	160-600		28.9			
45	11.6/0.50	7.1/ 0.4	1.44/0.01	2-600	L-V	28.9	4		
51	8.0/0.26	1.5/ 0.1	1.44/0.00	2-314		28.8			
43	2.2/0.08	1.8/ 0.1	1.46/0.01	18-596		0.0			
30	1.8/0.08	1.5/ 0.1	1.45/0.01	35-600		28.5			
48	5.7/0.32	1.3/ 0.0	1.44/0.00	183-596		29.2			
49	7.4/0.24	3.4/ 0.1	1.44/0.00	2-600	L-V	28.8	4	1986	
41	8.7/0.09	8.2/ 0.2	1.45/0.01	303		28.4			
45	1.1/0.03	3.7/ 0.1	1.54/0.01	323		0.0			
42	2.7/0.05	5.6/ 0.2	1.49/0.00	39-590		26.9			
42	5.2/0.08	6.0/ 0.1	1.44/0.00	125-500		29.4			
42	8.5/0.12	14.3/ 0.3	1.46/0.01	500	L-V	28.0	4	1986	MINE #S1774,1765-PRODUCING
53	5.3/0.15	0.9/ 0.0	1.35/0.04			25.3			
53	4.3/0.12	4.4/ 0.1	1.35/0.04			25.3			
53	5.3/0.15	8.5/ 0.2	1.35/0.04			25.3			
53	7.5/0.16	9.1/ 0.2	1.35/0.03	610	L-V	25.3	4		
20	5.4/0.16	3.5/ 0.1	1.45/0.04	610		25.2			
20	5.4/0.16	3.5/ 0.1	1.45/0.04	610	L-V	25.2	4		DIPS OF UP TO 30 DEGREES

TABLE A-1 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
SMOKY RIVER																
7	MT. HAMELL NORTH	U G THN	28/	1/	26	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	13/	1/	12	0.38	5/	0/	4	0.0	0.0	0.0	5/	0/	4	1
		U G THK	33/	2/	30	0.25	8/	0/	8	0.0	0.0	0.0	8/	0/	8	1
			74/	2/	70	0.18	13/	0/	12	0.0	0.0	0.0	13/	0/	12	7
8	MT. HAMELL SOUTH	U G THN	15/	1/	13	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	53/	3/	48	0.38	20/	1/	18	0.0	<0.1	<0.1	20/	1/	18	4
			68/	3/	62	0.29	20/	1/	18	0.0	<0.1	<0.1	20/	1/	18	6
		SURF	425/	7/	412	0.82	350/	5/	339	23.1	4.9	27.9	322/	5/	312	
		U G	577/	12/	554	0.26	148/	3/	141	0.0	13.4	13.4	135/	3/	128	
			1002/	13/	975	0.50	498/	6/	486	23.1	18.3	41.3	457/	6/	444	
SOUTHESK RIVER																
1		SURF	11/	1/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	18/	1/	15	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	28/	2/	25	0.34	10/	1/	9	0.0	0.0	0.0	10/	1/	9	2
		U G THK	8/	1/	7	0.31	2/	0/	2	0.0	0.0	0.0	2/	0/	2	1
			65/	3/	58	0.19	12/	1/	11	0.0	0.0	0.0	12/	1/	11	4
		SURF	11/	1/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	54/	2/	50	0.22	12/	1/	11	0.0	0.0	0.0	12/	1/	11	
			65/	3/	58	0.19	12/	1/	11	0.0	0.0	0.0	12/	1/	11	
TENT MOUNTAIN																
1		SURF	22/	1/	20	0.89	19/	1/	18	7.3	<0.1	7.3	11/	1/	10	5
		U G THK	78/	4/	70	0.25	19/	1/	17	0.0	0.0	0.0	19/	1/	17	5
			100/	4/	92	0.39	38/	1/	36	7.3	<0.1	7.3	31/	1/	29	5
		SURF	22/	1/	20	0.89	19/	1/	18	7.3	<0.1	7.3	11/	1/	10	
		U G	78/	4/	70	0.25	19/	1/	17	0.0	0.0	0.0	19/	1/	17	
			100/	4/	92	0.39	38/	1/	36	7.3	<0.1	7.3	31/	1/	29	
ISOLATED DEPOSITS																
1	FLAT CREEK	U G THN	9/	0/	8	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	9
		U G MED	16/	1/	14	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
			25/	1/	23	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	12
2	POCAHONTAS	SURF	2/	0/	2	0.05	0/	0/	0	0.0	0.1	0.1	0/	0/	0	1
		U G MED	15/	1/	14	0.05	1/	0/	1	0.0	0.7	0.7	0/	0/	0	1
			17/	1/	15	0.05	1/	0/	1	0.0	0.8	0.8	0/	0/	0	1
3	RIBBON CREEK	U G MED	7/	0/	6	0.01	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G THK	18/	1/	16	0.01	0/	0/	0	0.0	0.2	0.2	0/	0/	0	1
			25/	1/	23	0.01	0/	0/	0	0.0	0.2	0.2	0/	0/	0	2
4	SUSA CREEK	SURF	8/	0/	8	0.84	7/	0/	6	0.0	0.0	0.0	7/	0/	6	1
		U G THN	3/	0/	3	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	9/	0/	9	0.38	4/	0/	3	0.0	0.0	0.0	4/	0/	3	1
			21/	1/	20	0.51	11/	0/	10	0.0	0.0	0.0	11/	0/	10	2
		SURF	10/	0/	9	0.71	7/	0/	7	0.0	0.1	0.1	7/	0/	6	
		U G	77/	2/	74	0.06	5/	0/	4	0.0	0.9	0.9	4/	0/	3	
			87/	2/	84	0.13	12/	0/	11	0.0	1.0	1.0	11/	0/	10	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
35	5.5/0.16	2.9/ 0.1	1.45/0.04			0.0			
35	1.8/0.05	4.0/ 0.1	1.45/0.04			25.5			
35	4.0/0.12	4.7/ 0.1	1.45/0.04			25.2			
35	8.3/0.15	5.0/ 0.1	1.45/0.03	579	L-V	25.2	4		
45	2.2/0.06	3.2/ 0.1	1.45/0.04			0.0			
45	8.2/0.24	3.2/ 0.1	1.45/0.04			26.0			
45	10.4/0.24	3.2/ 0.1	1.45/0.03	558	L-V	26.0	4		
	9.7/0.11	24.3/ 0.3	1.45/0.00	314		28.5			
	8.5/0.11	34.0/ 0.5	1.43/0.01	610		27.0			
:::::::	9.0/0.09	58.0/ 0.6	1.43/0.01	610		27.9			:::
22	4.2/0.27	1.7/ 0.1	1.42/0.03	7- 75		0.0			
24	1.7/0.11	6.4/ 0.1	1.46/0.03	20-202		0.0			
25	3.5/0.17	5.1/ 0.1	1.43/0.03	45-312		27.9			
22	4.3/0.27	1.2/ 0.1	1.43/0.04	62-233		27.9			
24	5.3/0.23	7.8/ 0.2	1.44/0.02	7-312	M-V	27.9	2	1984	
	4.2/0.27	1.7/ 0.1	1.42/0.03	7- 75		0.0			
	5.3/0.18	6.5/ 0.1	1.44/0.02	20-312		27.9			
:::::::	5.3/0.23	7.8/ 0.2	1.44/0.02	7-312		27.9			:::
50	15.2/0.44	0.7/ 0.0	1.40/0.04			28.4			
50	15.2/0.44	2.3/ 0.1	1.40/0.04			28.4			
50	15.2/0.35	3.0/ 0.1	1.40/0.03	610	M-V	28.4	4		
	15.2/0.44	0.7/ 0.0	1.40/0.04			28.4			
	15.2/0.44	2.3/ 0.1	1.40/0.04			28.4			
:::::::	15.2/0.35	3.0/ 0.1	1.40/0.03	610		28.4			:::
43	3.5/0.10	1.4/ 0.0	1.35/0.04			0.0			
40	6.6/0.19	1.4/ 0.0	1.35/0.04			0.0			
40	10.1/0.21	1.4/ 0.0	1.35/0.03	5-610	L-V	0.0	2	1980	
53	2.1/0.06	0.4/ 0.0	1.35/0.04			0.0			
54	2.1/0.06	3.1/ 0.1	1.35/0.04			0.0			
54	2.1/0.05	3.5/ 0.1	1.35/0.04	610	L-V/M-V	0.0	1		LUSCAR GP
30	1.8/0.05	2.4/ 0.1	1.35/0.04			0.0			
30	4.6/0.13	2.3/ 0.1	1.35/0.04			0.0			
30	6.4/0.14	2.5/ 0.1	1.35/0.03	610	L-V	0.0	1		KOOTENAY GP
18	3.0/0.09	1.9/ 0.1	1.41/0.04			27.5			
18	0.9/0.03	2.3/ 0.1	1.41/0.04			0.0			
18	2.7/0.08	2.4/ 0.1	1.41/0.04			27.5			
18	3.7/0.07	3.8/ 0.1	1.41/0.03	152	L-V/M-V	27.5	4		LUSCAR GP
	2.8/0.07	2.3/ 0.1	1.40/0.03			27.5			
	4.5/0.05	6.3/ 0.1	1.36/0.02			27.5			
:::::::	4.4/0.05	11.2/ 0.1	1.36/0.01	610		27.5			:::

TABLE A-1 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
MISCELLANEOUS																
1	LOW/MED VOL BIT	SURF	0/	0/	0	0.10	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			0/	0/	0	0.10	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
2	MED VOL BIT	SURF	0/	0/	0	0.03	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
			0/	0/	0	0.03	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
3	HIGH VOL BIT	SURF	0/	0/	0	0.02	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	
			0/	0/	0	0.02	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	
		SURF	0/	0/	0	0.14	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
::::::::::::::::::::::::::::::::::::			0/	0/	0	0.14	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	:::::::::
		SURF	1664/	23/	1619	0.51	852/	11/	831	89.2	14.0	103.1	749/	11/	728	
		U G	5928/	50/	5828	0.17	1025/	12/	1001	0.0	127.7	127.7	897/	12/	873	
GRAND TOTAL	::::::::::::::::::::		7592/	55/	7482	0.25	1878/	16/	1846	89.2	141.7	230.8	1647/	16/	1615	:::::::::
TOTALS BY RANK																
**********																
RANK																
**********																
SA		SURF	1/	0/	1	0.50	1/	0/	1	0.6	0.0	0.6	0/	0/	0	
		U G	471/	17/	437	0.16	81/	5/	71	0.0	9.0	9.0	72/	5/	62	
::::::::::::::::::::::::::::::::::::			472/	17/	438	0.16	82/	5/	72	0.6	9.0	9.6	72/	5/	62	:::::::
L-V		SURF	671/	9/	652	0.69	464/	6/	452	50.4	8.6	59.1	405/	6/	393	
		U G	1924/	26/	1871	0.17	332/	7/	318	0.0	31.8	31.8	300/	7/	286	
::::::::::::::::::::::::::::::::::::			2594/	28/	2539	0.31	796/	9/	777	50.4	40.4	90.9	705/	9/	687	:::::::
M-V		SURF	908/	20/	867	0.39	357/	8/	341	37.6	4.1	41.8	315/	8/	299	
		U G	2622/	35/	2552	0.21	540/	8/	524	0.0	65.5	65.5	475/	8/	458	
::::::::::::::::::::::::::::::::::::			3530/	40/	3449	0.25	898/	12/	874	37.6	69.6	107.3	790/	12/	767	:::::::
M-V A		SURF	42/	3/	36	0.70	30/	2/	25	0.5	1.2	1.7	29/	2/	24	
		U G	307/	6/	295	0.24	72/	1/	69	0.0	21.4	21.4	51/	1/	48	
::::::::::::::::::::::::::::::::::::			349/	7/	336	0.29	102/	3/	97	0.5	22.6	23.1	79/	3/	74	:::::::
M-V B		SURF	43/	2/	38	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	604/	16/	572	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
::::::::::::::::::::::::::::::::::::			647/	16/	614	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	:::::::

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
					L-V/M-V				
					M-V				
					M-V A				
	8.4/0.08	117.1/ 0.8	1.41/0.01			27.3			
	9.1/0.05	403.0/ 1.9	1.35/0.01			27.6			
::::::::	9.2/0.04	503.9/ 2.2	1.36/0.00			27.4			::
	1.3/0.04	0.5/ 0.0	1.30/0.04			0.0			
	16.0/0.33	21.5/ 0.4	1.33/0.03	600		28.5			
::::::::	15.7/0.32	21.9/ 0.5	1.33/0.03	610	SA	28.5			
	9.7/0.02	38.4/ 0.4	1.43/0.01	317		27.8			
	10.8/0.09	103.2/ 0.9	1.35/0.01	610		27.8			
::::::::	10.5/0.07	141.0/ 1.0	1.37/0.01	610	L-V	27.8			
	7.7/0.13	73.4/ 0.8	1.40/0.01	317		26.5			
	8.2/0.07	199.7/ 1.7	1.36/0.01	610		27.4			
::::::::	8.5/0.06	258.0/ 1.8	1.37/0.01	610	M-V	27.0			
	8.4/0.49	2.4/ 0.1	1.38/0.03	259		28.1			
	5.4/0.06	33.7/ 0.4	1.33/0.02	610		27.6			
::::::::	5.8/0.07	35.6/ 0.4	1.34/0.01	610	M-V A	27.8			
	10.4/0.30	2.4/ 0.1	1.32/0.04			0.0			
	8.9/0.13	44.9/ 0.7	1.32/0.02			0.0			
::::::::	9.0/0.13	47.3/ 0.7	1.32/0.02	610	M-V B	0.0			

TABLE A-2 ESTABLISHED RESOURCES AND RESERVES OF COAL IN THE FOOTHILLS REGION OF ALBERTA, DETAILED TABLES
AT 31 DECEMBER 1988

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
COALSPUR																
1	COLD CREEK	SURF	2/	0/	2	0.86	2/	0/	2	0.0	<0.1	<0.1	2/	0/	2	1
		U G MED	4/	0/	3	0.52	2/	0/	2	0.0	0.0	0.0	2/	0/	2	1
			6/	0/	6	0.64	4/	0/	4	0.0	<0.1	<0.1	4/	0/	4	1
2	HARDESTY CREEK	SURF	8/	2/	5	0.85	7/	1/	4	0.0	0.0	0.0	7/	1/	4	4
		U G THN	12/	2/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	5/	1/	4	0.51	3/	0/	2	0.0	0.0	0.0	3/	0/	2	2
			26/	3/	20	0.33	10/	2/	7	0.0	0.0	0.0	10/	2/	7	7
3	WIGWAM	SURF	16/	6/	5	0.85	14/	5/	4	0.0	0.0	0.0	14/	5/	4	5
		U G THN	13/	2/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	9/	3/	3	0.19	4/	2/	1	0.0	0.0	0.0	4/	2/	1	2
			38/	7/	24	0.31	18/	5/	7	0.0	0.0	0.0	18/	5/	7	5
4	ANDERSON CREEK	SURF	20/	2/	15	0.00	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	7
		U G THN	2/	1/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	5/	1/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			27/	3/	20	0.00	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	7
5	MERCOAL	SURF	338/	38/	262	0.70	234/	26/	183	<0.1	4.8	4.8	230/	26/	178	6
		U G THN	36/	4/	27	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	42/	4/	33	0.53	22/	2/	18	0.0	0.0	0.0	22/	2/	18	3
		U G THK	40/	5/	29	0.34	14/	2/	10	0.0	0.0	0.0	14/	2/	10	1
			456/	46/	364	0.59	270/	27/	216	<0.1	4.8	4.8	265/	27/	211	6
6	DUMMY CREEK	SURF	17/	1/	16	0.85	15/	1/	13	<0.1	0.4	0.5	14/	1/	13	1
		U G THK	23/	1/	21	0.35	8/	0/	7	0.0	0.0	0.0	8/	0/	7	2
			41/	1/	38	0.56	23/	1/	21	<0.1	0.4	0.5	22/	1/	21	2
7	COAL VALLEY	SURF	149/	7/	134	0.87	127/	5/	117	48.6	3.5	52.1	74/	5/	65	6
		U G THN	12/	1/	11	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	110/	5/	99	0.53	58/	3/	53	0.0	0.0	0.0	58/	3/	53	3
		U G THK	109/	5/	98	0.35	38/	2/	34	0.0	0.0	0.0	38/	2/	34	2
			379/	11/	358	0.59	223/	6/	211	48.6	3.5	52.1	171/	6/	159	6
8	MOOSE LAKE	SURF	1/	0/	1	0.83	1/	0/	1	0.0	0.0	0.0	1/	0/	1	1
		U G MED	4/	0/	3	0.53	2/	0/	2	0.0	0.0	0.0	2/	0/	2	1
			5/	0/	5	0.60	3/	0/	3	0.0	0.0	0.0	3/	0/	3	1
		SURF	552/	46/	460	0.75	399/	28/	344	48.6	8.7	57.4	342/	28/	286	
		U G	425/	13/	398	0.35	151/	5/	141	0.0	0.0	0.0	151/	5/	141	
			977/	48/	881	0.56	550/	28/	494	48.6	8.7	57.4	493/	28/	436	
HANNINGTON																
1		SURF	181/	22/	138	0.88	152/	15/	122	0.0	0.0	0.0	152/	15/	122	3
		U G THN	57/	17/	23	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			238/	27/	183	0.66	152/	15/	122	0.0	0.0	0.0	152/	15/	122	3
		SURF	181/	22/	138	0.88	152/	15/	122	0.0	0.0	0.0	152/	15/	122	
		U G	57/	17/	23	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			238/	27/	183	0.66	152/	15/	122	0.0	0.0	0.0	152/	15/	122	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
15	3.0/0.09	0.6/ 0.0	1.33/0.06			22.6			
15	3.0/0.09	0.9/ 0.0	1.33/0.04			22.6			
15	3.0/0.06	1.4/ 0.0	1.33/0.03	610	H-V C	22.6	4		
25	4.0/0.78	1.2/ 0.1	1.57/0.05	4-170		17.3			
23	4.1/0.68	1.7/ 0.1	1.54/0.03	40-240		0.0			
21	2.6/0.33	1.2/ 0.1	1.53/0.08	70-270		18.5			
24	7.1/0.62	2.1/ 0.1	1.54/0.03	4-420	H-V C	17.9	4	1983	
55	5.4/1.70	1.1/ 0.2	1.51/0.04	10-370		19.5			
54	2.4/0.39	2.0/ 0.2	1.53/0.04	150-600		0.0			
54	3.3/1.01	1.1/ 0.2	1.48/0.07	130-600		20.4			
55	4.9/0.78	3.0/ 0.3	1.51/0.03	10-600	H-V C	19.5	4	1983	
65	2.2/0.21	2.6/ 0.1	1.45/0.06	29-133		0.0			
65	0.7/0.14	0.9/ 0.2	1.47/0.17	23-152		0.0			
65	1.6/0.34	0.9/ 0.2	1.45/0.08	58-138		0.0			
65	1.8/0.20	4.2/ 0.2	1.45/0.05	23-138	H-V C	0.0	4	1984	COMPLEX STRUCTURE
35	9.7/1.05	19.4/ 0.6	1.48/0.02	5-533		20.7			
35	2.7/0.25	7.2/ 0.6	1.50/0.04	5-501		0.0			
35	5.4/0.53	6.6/ 0.2	1.52/0.03	5-600		19.2			
35	5.6/0.67	4.0/ 0.2	1.47/0.06	5-600		21.0			
35	6.8/0.65	37.1/ 1.2	1.48/0.02	5-600	H-V C	20.7	4	1984	MINE #1799-UNDEVELOPED
50	7.8/0.23	1.1/ 0.0	1.31/0.04			20.9			
50	8.4/0.24	1.4/ 0.0	1.31/0.04			20.9			
50	8.4/0.18	2.4/ 0.0	1.31/0.03	600	H-V C	20.9	4		
12	21.2/0.61	5.3/ 0.2	1.31/0.04			20.9			
17	1.4/0.04	6.4/ 0.2	1.31/0.04			0.0			
13	6.8/0.26	9.3/ 0.3	1.31/0.04			20.9			
11	11.0/0.52	7.4/ 0.2	1.31/0.04			20.9			
13	11.3/0.18	25.1/ 0.4	1.31/0.02	396	H-V C	20.9	4		MINE #1778-PRODUCING
54	3.4/0.10	0.2/ 0.0	1.35/0.04			22.4			
53	3.4/0.10	0.5/ 0.0	1.35/0.04			22.4			
54	3.4/0.08	0.7/ 0.0	1.35/0.03	488	H-V C	22.4	4		
	9.5/0.64	31.4/ 0.6	1.43/0.02	533		20.7			
	5.6/0.12	45.6/ 0.7	1.38/0.02	600		20.6			
::::::::	7.4/0.34	76.0/ 1.3	1.41/0.01	610		20.7			::
1	4.1/0.34	28.8/ 2.0	1.54/0.06	15- 69		18.7			
1	1.5/0.35	25.0/ 1.9	1.51/0.25	59- 91		0.0			
1	2.9/0.25	53.8/ 2.7	1.53/0.08	15- 91	HVC/SUB A	18.7	4	1983	
	4.1/0.34	28.8/ 2.0	1.54/0.08	15- 69		18.7			
	1.5/0.35	25.0/ 1.9	1.51/0.25	59- 91		0.0			
::::::::	2.9/0.25	53.8/ 2.7	1.53/0.08	15- 91		18.7			::

TABLE A-2 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
JARVIS LAKE																
1	POLECAT CREEK	SURF	7/	3/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THN	10/	2/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	26/	4/	18	0.51	14/	2/	9	0.0	0.0	0.0	14/	2/	9	3
			44/	5/	34	0.27	14/	2/	9	0.0	0.0	0.0	14/	2/	9	5
2	PINTO CREEK	SURF	39/	4/	32	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		U G THN	20/	2/	15	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	96/	8/	80	0.37	37/	4/	30	0.0	0.0	0.0	37/	4/	30	5
		U G THK	14/	4/	7	0.48	7/	2/	3	0.0	0.0	0.0	7/	2/	3	1
			169/	10/	150	0.24	44/	4/	36	0.0	0.0	0.0	44/	4/	36	10
3	TWELVE MILE CREEK	SURF	77/	8/	61	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G THN	3/	1/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	48/	6/	36	0.42	21/	3/	15	0.0	0.0	0.0	21/	3/	15	5
		U G THK	2/	1/	1	0.40	1/	0/	0	0.0	0.0	0.0	1/	0/	0	1
			130/	10/	109	0.15	22/	3/	16	0.0	0.0	0.0	22/	3/	16	7
4	PEPPERS LAKE	SURF	14/	7/	0	0.00	12/	6/	0	0.0	0.0	0.0	12/	6/	0	3
		U G THN	9/	2/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	18/	4/	10	0.53	10/	2/	5	0.0	0.0	0.0	10/	2/	5	1
			41/	9/	24	0.37	22/	7/	9	0.0	0.0	0.0	22/	7/	9	3
		SURF	137/	12/	113	0.00	12/	6/	0	0.0	0.0	0.0	12/	6/	0	
		U G	246/	13/	221	0.35	89/	6/	77	0.0	0.0	0.0	89/	6/	77	
			384/	17/	349	0.24	101/	9/	84	0.0	0.0	0.0	101/	9/	84	
MCLEOD RIVER																
1	MCLEOD RIVER NORTH	SURF	1447/	27/	1391	0.84	1218/	23/	1172	0.0	0.2	0.2	1218/	23/	1171	23
		U G THN	9/	1/	7	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	7/	1/	4	0.51	3/	1/	2	0.0	0.0	0.0	3/	1/	2	1
			1462/	28/	1406	0.83	1222/	24/	1173	0.0	0.2	0.2	1222/	24/	1174	24
2	MCLEOD RIVER SOUTH	SURF	461/	62/	337	0.83	383/	52/	279	0.1	0.9	1.0	382/	52/	278	14
			461/	62/	337	0.83	383/	52/	279	0.1	0.9	1.0	382/	52/	278	14
3	ERITH RIVER NORTH	SURF	248/	27/	194	0.76	184/	21/	143	0.0	0.4	0.4	184/	21/	143	15
		U G THN	14/	4/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		U G MED	20/	7/	7	0.52	10/	3/	4	0.0	0.0	0.0	10/	3/	4	6
		U G THK	5/	2/	2	0.33	2/	1/	1	0.0	0.0	0.0	2/	1/	1	1
			287/	28/	231	0.67	197/	21/	155	0.0	0.4	0.4	196/	21/	154	15
4	ERITH RIVER SOUTH	SURF	185/	18/	149	0.86	159/	16/	128	0.0	0.0	0.0	159/	16/	128	6
		U G THN	126/	13/	100	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	62/	9/	45	0.53	33/	5/	24	0.0	0.0	0.0	33/	5/	24	2
		U G THK	52/	6/	40	0.42	22/	3/	17	0.0	0.0	0.0	22/	3/	17	1
			424/	32/	361	0.49	214/	18/	177	0.0	0.0	0.0	214/	18/	177	6
		SURF	2341/	76/	2189	0.83	1945/	63/	1818	0.1	1.5	1.6	1943/	63/	1816	
		U G	293/	23/	247	0.23	70/	7/	57	0.0	0.0	0.0	70/	7/	57	
			2634/	80/	2475	0.76	2016/	64/	1888	0.1	1.5	1.6	2014/	64/	1886	
OBED MOUNTAIN																
1	MARSH NORTH	SURF	6/	1/	5	0.87	5/	0/	5	0.0	0.0	0.0	5/	0/	5	1
			6/	1/	5	0.87	5/	0/	5	0.0	0.0	0.0	5/	0/	5	1

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
7	2.3/0.29	2.0/ 0.7	1.61/0.13	5- 75		0.0			
7	1.4/0.14	4.3/ 0.8	1.65/0.05	75- 95		0.0			
7	4.0/0.27	4.0/ 0.6	1.65/0.06	75-170		15.9			
7	4.9/0.33	5.5/ 0.5	1.64/0.05	5-170	H-V C	15.9	2	1984	
4	2.9/0.13	8.5/ 0.7	1.60/0.03	5-125		0.0			
4	1.2/0.06	10.2/ 1.5	1.56/0.03	20-200		0.0			
4	3.4/0.17	17.5/ 1.1	1.61/0.03	40-200		16.4			
4	4.0/0.28	2.0/ 0.5	1.68/0.03	90-175		14.5			
4	4.6/0.19	22.8/ 0.8	1.61/0.03	5-200	H-V C	16.1	2	1984	
4	3.8/0.25	13.0/ 1.0	1.55/0.05	5- 75		0.0			
4	0.9/0.06	2.7/ 0.5	1.58/0.05	60-125		0.0			
4	3.2/0.20	9.7/ 1.0	1.55/0.07	45-145		18.4			
4	3.6/0.30	0.3/ 0.1	1.56/0.05	90-110		18.1			
4	4.8/0.27	17.5/ 0.8	1.55/0.05	5-145	H-V C	18.4	2	1984	
4	4.2/0.56	2.2/ 0.7	1.53/0.52	5-145		0.0			
4	1.5/0.13	4.6/ 0.5	1.54/0.15	90- 96		0.0			
4	2.2/0.42	5.5/ 0.7	1.53/0.09	85-105		20.5			
4	3.4/0.49	7.9/ 1.1	1.53/0.13	5-145	H-V C	20.5	4	1984	
	3.4/0.14	25.7/ 1.6	1.57/0.06	5-145		0.0			
	4.1/0.12	37.4/ 1.5	1.59/0.02	20-200		17.1			
::::::::	4.5/0.14	53.7/ 1.5	1.58/0.03	5-200		17.1			::
8	17.0/0.27	54.4/ 0.6	1.54/0.01	562		19.1			
8	1.6/0.06	4.9/ 0.4	1.50/0.06	21-238		0.0			
8	1.8/0.15	2.2/ 0.4	1.65/0.02	43-443		15.7			
8	16.0/0.27	58.6/ 0.5	1.54/0.01	562	H-V C	19.1	1,2&4	1986	MINE #1798-UNDEVELOPED
19	17.3/2.09	15.8/ 0.9	1.60/0.03	3-360		18.2			
19	17.3/2.09	15.8/ 0.9	1.60/0.03	3-360	H-V C	18.2	4	1982	
33	20.0/2.04	6.8/ 0.2	1.53/0.03	8-540		20.5			
33	6.0/1.63	1.2/ 0.2	1.57/0.03	75-588		0.0			
33	10.8/2.82	1.0/ 0.2	1.53/0.04	351-566		20.5			
33	4.8/0.20	0.6/ 0.2	1.50/0.17	354-427		21.4			
33	20.1/1.81	7.8/ 0.3	1.53/0.03	8-588	H-V C	20.5	4	1982	
26	8.4/0.66	13.3/ 0.7	1.48/0.03	15-305		20.8			
27	2.8/0.27	26.3/ 0.9	1.51/0.03	18-589		0.0			
27	2.4/0.29	15.5/ 0.7	1.51/0.07	78-572		19.6			
29	4.5/0.18	6.9/ 0.7	1.47/0.06	331-554		21.1			
27	6.6/0.45	38.3/ 1.0	1.49/0.03	15-589	H-V C	20.8	4	1984	
	16.0/0.46	90.5/ 1.3	1.55/0.01	562		19.2			
	5.4/0.29	32.5/ 1.0	1.51/0.02	18-589		20.0			
::::::::	13.3/0.37	120.5/ 1.5	1.54/0.01	589		19.2			::
1	1.5/0.06	2.8/ 0.2	1.51/0.01	11- 31		17.8			
1	1.5/0.06	2.8/ 0.2	1.51/0.01	11- 31	HVC/SUB A	17.8	4	1987	

TABLE A-2 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
OBED MOUNTAIN																
2	MARSH SOUTH	SURF	28/	2/	25	0.88	25/	1/	22	0.0	0.0	0.0	25/	1/	22	2
			28/	2/	25	0.88	25/	1/	22	0.0	0.0	0.0	25/	1/	22	2
3	OBED NORTH	SURF	12/	1/	10	0.79	9/	0/	8	7.0	0.0	7.0	2/	0/	1	2
			12/	1/	10	0.79	9/	0/	8	7.0	0.0	7.0	2/	0/	1	2
4	OBED SOUTH	SURF	173/	4/	165	0.88	152/	4/	145	0.3	0.0	0.3	152/	4/	145	5
			173/	4/	165	0.88	152/	4/	145	0.3	0.0	0.3	152/	4/	145	5
		SURF	219/	5/	210	0.87	191/	4/	184	7.3	0.0	7.3	184/	4/	176	
		U G	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			219/	5/	210	0.87	191/	4/	184	7.3	0.0	7.3	184/	4/	176	
ISOLATED DEPOSITS																
1	ALEXO	SURF	3/	0/	2	0.11	0/	0/	0	0.3	0.0	0.3	0/	0/	0	1
		U G MED	15/	1/	13	0.52	7/	0/	7	0.0	1.5	1.5	6/	0/	5	1
			17/	1/	16	0.45	8/	0/	7	0.3	1.5	1.8	6/	0/	5	1
2	LUNDBRECK	U G THN	1/	0/	0	0.04	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	7/	0/	6	0.03	0/	0/	0	0.0	0.2	0.2	0/	0/	0	1
			7/	0/	6	0.03	0/	0/	0	0.0	0.2	0.2	0/	0/	0	2
3	MAXWELL LAKE	SURF	2/	0/	2	0.20	0/	0/	0	0.4	0.0	0.4	0/	0/	0	1
		U G MED	1/	0/	1	0.21	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
			4/	0/	3	0.20	1/	0/	1	0.4	0.3	0.6	0/	0/	0	1
4	SHUNDA CREEK	U G THN	2/	0/	2	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	6/	0/	5	0.53	3/	0/	3	0.0	<0.1	<0.1	3/	0/	3	2
			8/	0/	7	0.37	3/	0/	3	0.0	<0.1	<0.1	3/	0/	3	3
5	THOMPSON CREEK	SURF	18/	1/	16	0.85	15/	1/	14	0.0	0.0	0.0	15/	1/	14	1
		U G MED	24/	1/	22	0.53	13/	1/	12	0.0	0.0	0.0	13/	1/	12	1
			42/	2/	39	0.67	28/	1/	26	0.0	0.0	0.0	28/	1/	26	1
		SURF	22/	1/	21	0.69	16/	1/	14	0.7	0.0	0.7	15/	1/	14	
		U G	55/	1/	52	0.42	24/	1/	22	0.0	2.0	2.0	22/	1/	20	
			77/	2/	74	0.50	39/	1/	37	0.7	2.0	2.7	37/	1/	35	
MISCELLANEOUS																
1	HIGH VOL BIT	SURF	1/	0/	0	0.74	0/	0/	0	0.0	0.3	0.3	0/	0/	0	
			1/	0/	0	0.74	0/	0/	0	0.0	0.3	0.3	0/	0/	0	
		SURF	1/	0/	0	0.74	0/	0/	0	0.0	0.3	0.3	0/	0/	0	
		U G	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			1/	0/	0	0.74	0/	0/	0	0.0	0.3	0.3	0/	0/	0	
		SURF	3454/	93/	3269	0.79	2716/	71/	2573	56.7	10.5	67.2	2649/	71/	2506	
		U G	1076/	34/	1008	0.31	334/	10/	313	0.0	2.0	2.0	332/	10/	311	
GRAND TOTAL			4530/	99/	4332	0.67	3050/	72/	2906	56.7	12.5	69.2	2980/	72/	2836	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
1	2.7/0.12	7.1/ 0.3	1.45/0.01	4- 38		19.8			
1	2.7/0.12	7.1/ 0.3	1.45/0.01	4- 38	HVC/SUB A	19.8	4	1987	
1	5.5/0.14	1.4/ 0.1	1.46/0.01	4- 46		19.5			
1	5.5/0.14	1.4/ 0.1	1.46/0.01	4- 46	HVC/SUB A	19.5	4	1987	MINE #1791-PRODUCING
1	7.4/0.16	15.6/ 0.2	1.49/0.00	1-149		18.4			
1	7.4/0.16	15.6/ 0.2	1.49/0.00	1-149	HVC/SUB A	18.4	4	1987	
	5.5/0.10	27.0/ 0.3	1.48/0.00	1-149		18.6			
	0.0/0.00	0.0/ 0.0	0.00/0.00			0.0			
:::::::	5.5/0.10	27.0/ 0.3	1.48/0.00	1-149		18.6			:::
5	1.8/0.05	1.0/ 0.0	1.41/0.04			0.0			
5	1.8/0.05	5.6/ 0.2	1.41/0.04			24.2			
5	1.8/0.05	6.6/ 0.2	1.41/0.04	305	H-V C	24.2	2		PASKAPOO FM, COALSPUR MB
45	1.0/0.03	0.3/ 0.0	1.31/0.04			0.0			
45	1.7/0.05	2.1/ 0.1	1.31/0.04			0.0			
45	1.8/0.05	2.1/ 0.1	1.31/0.04	274	H-V A/B	0.0	1		BELLY RIVER FM
16	1.7/0.05	0.9/ 0.0	1.42/0.04			0.0			
16	1.7/0.05	0.6/ 0.0	1.42/0.04			0.0			
16	1.7/0.04	1.4/ 0.0	1.42/0.03	610	H-V B	0.0	1		UPPER BRAZEAU FM
19	1.2/0.03	1.3/ 0.0	1.31/0.04			0.0			
19	3.0/0.09	1.4/ 0.0	1.31/0.04			24.1			
19	4.3/0.09	1.4/ 0.0	1.31/0.03	335	H-V C	24.1	2		PASKAPOO FM, COALSPUR MB
15	3.1/0.09	4.2/ 0.1	1.32/0.04			25.0			
15	3.1/0.09	5.8/ 0.2	1.32/0.04			25.0			
15	3.1/0.07	10.0/ 0.2	1.32/0.03	152	H-V B	25.0	4		BRAZEAU FM (BUT MAY BE PASKAPOO FM)
	2.7/0.06	6.1/ 0.1	1.34/0.03			25.0			
	2.5/0.04	15.4/ 0.2	1.34/0.02			24.6			
:::::::	2.5/0.03	21.5/ 0.3	1.34/0.02	610		24.8			:::
					H-V C				
	10.1/0.23	209.7/ 2.3	1.52/0.01			19.2			
	4.3/0.10	155.8/ 2.3	1.47/0.02			19.8			
:::::::	7.9/0.15	352.6/ 3.1	1.51/0.01			19.4			:::

TABLE A-2 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
TOTALS BY RANK																
	RANK															
	H-V A	U G	4/	0/	3	0.04	0/	0/	0	0.0	0.1	0.1	0/	0/	0	
			4/	0/	3	0.04	0/	0/	0	0.0	0.1	0.1	0/	0/	0	
	H-V B	SURF	20/	1/	18	0.77	15/	1/	14	0.4	0.0	0.4	15/	1/	14	
		U G	29/	1/	26	0.45	13/	1/	12	0.0	0.4	0.4	13/	1/	11	
			49/	2/	46	0.58	29/	1/	27	0.4	0.4	0.8	28/	1/	26	
	H-V C	SURF	3221/	91/	3039	0.78	2519/	70/	2379	51.0	10.5	61.5	2658/	70/	2318	
		U G	1001/	31/	939	0.32	320/	10/	300	0.0	1.5	1.5	319/	10/	298	
			4221/	96/	4029	0.67	2840/	71/	2698	51.0	12.1	63.0	2777/	71/	2635	
	SUB A	SURF	214/	19/	176	0.88	181/	13/	155	5.3	0.0	5.3	176/	13/	149	
		U G	42/	14/	14	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			256/	24/	209	0.74	181/	13/	155	5.3	0.0	5.3	176/	13/	149	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	1.8/0.07	1.0/ 0.0	1.31/0.05			0.0			
:::::::	1.8/0.07	1.0/ 0.0	1.31/0.05	274	H-V A	0.0			
	2.9/0.07	5.1/ 0.1	1.33/0.03			25.0			
	2.8/0.07	7.3/ 0.2	1.32/0.03			25.0			
:::::::	2.8/0.05	12.5/ 0.2	1.33/0.02	610	H-V B	25.0			
	11.5/0.28	170.6/ 1.9	1.52/0.01	562		19.2			
	4.8/0.19	128.7/ 1.5	1.47/0.02	600		19.6			
:::::::	8.9/0.18	286.4/ 2.6	1.51/0.01	610	H-V C	19.4			
	4.1/0.26	34.0/ 1.0	1.52/0.06	1-149		18.7			
	1.5/0.41	18.7/ 0.0	1.51/0.26	59- 91		0.0			
:::::::	3.2/0.22	52.8/ 1.3	1.51/0.06	1-149	SUB A	18.7			

TABLE A-3 ESTABLISHED RESOURCES AND RESERVES OF COAL IN THE PLAINS REGION OF ALBERTA, DETAILED TABLES
AT 31 DECEMBER 1988

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE	SE	ESTB	RECOV RATIO	INITIAL RESERVES BE	SE	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE	SE	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
ALIX																
1	TRISTRAM	SURF	39/	7/	24	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G THN	194/	16/	161	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
			232/	18/	196	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
2	PARLBY LAKE	SURF	6/	2/	3	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	306/	14/	277	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	32/	5/	23	0.55	19/	3/	12	0.0	0.0	0.0	19/	3/	12	1
			343/	15/	313	0.04	19/	3/	12	0.0	0.0	0.0	19/	3/	12	5
3	TEES	SURF	201/	9/	182	0.79	158/	8/	143	0.0	0.0	0.0	158/	8/	143	4
		U G THN	890/	43/	805	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	372/	34/	305	0.67	250/	23/	205	0.0	0.0	0.0	250/	23/	205	3
			1463/	57/	1349	0.27	408/	20/	369	0.0	0.0	0.0	408/	20/	369	6
4	HAYNES	SURF	196/	9/	178	0.69	136/	7/	123	0.1	<0.1	0.2	136/	7/	123	3
		U G THN	619/	37/	545	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	1481/	64/	1355	0.65	960/	40/	880	0.0	0.0	0.0	960/	40/	880	2
			2296/	78/	2140	0.47	1096/	44/	1009	0.1	<0.1	0.2	1096/	44/	1009	7
5	HEATBURG	SURF	166/	16/	135	0.73	121/	11/	98	0.7	<0.1	0.7	120/	11/	98	4
		U G THN	26/	6/	14	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
			193/	17/	158	0.62	121/	11/	98	0.7	<0.1	0.7	120/	11/	98	7
		SURF	607/	22/	563	0.69	415/	15/	386	0.8	<0.1	0.9	415/	15/	385	
		U G	3919/	99/	3722	0.30	1229/	47/	1135	0.0	0.0	0.0	1229/	47/	1135	
			4527/	101/	4325	0.36	1644/	49/	1546	0.8	<0.1	0.9	1644/	49/	1545	
ARDLEY																
1	DELBURNE	SURF	535/	18/	498	0.43	230/	8/	214	0.2	0.2	0.4	229/	8/	213	3
		U G THN	39/	4/	31	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
		U G MED	152/	20/	112	0.56	100/	19/	63	0.0	<0.1	<0.1	100/	19/	63	2
		U G THK	68/	4/	59	0.44	30/	2/	26	0.0	<0.1	<0.1	30/	2/	26	1
			794/	27/	740	0.43	360/	20/	320	0.2	0.3	0.5	360/	20/	320	3
2	HILLSDOWN	SURF	32/	7/	18	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	2
		U G THN	70/	12/	46	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	1306/	55/	1197	0.62	810/	35/	741	0.0	0.0	0.0	810/	35/	741	2
			1409/	58/	1293	0.57	810/	35/	740	<0.1	<0.1	<0.1	810/	35/	741	2
3	PINE LAKE	U G THN	87/	7/	74	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	2347/	61/	2227	0.67	1584/	41/	1503	0.0	0.0	0.0	1584/	41/	1503	2
			2434/	61/	2313	0.65	1584/	41/	1503	0.0	0.0	0.0	1584/	41/	1503	4
4	ELNORA	U G THN	131/	35/	61	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	1059/	38/	983	0.66	691/	21/	649	0.0	0.0	0.0	691/	21/	649	2
			1190/	43/	1104	0.59	691/	21/	649	0.0	0.0	0.0	691/	21/	649	2
5	GOOSEQUILL LAKE	SURF	179/	10/	159	0.41	75/	5/	65	0.0	<0.1	<0.1	75/	5/	65	2
		U G THN	71/	10/	52	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	156/	13/	129	0.42	66/	6/	55	0.0	0.0	0.0	66/	6/	55	1
			406/	19/	368	0.34	141/	7/	126	0.0	<0.1	<0.1	141/	7/	126	2

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	1.9/0.23	13.2/ 1.7	1.50/0.10	24-125		0.0			
	1.4/0.10	96.3/ 4.5	1.48/0.02	11- 96		0.0			
	1.5/0.10	104.5/ 3.6	1.49/0.03	11-125	SUB B/C	0.0		1984	
	1.2/0.05	3.3/ 0.9	1.50/0.02	20- 49		0.0			
	1.5/0.04	163.3/ 5.0	1.53/0.02	15-187		0.0			
	1.8/0.13	11.4/ 1.4	1.56/0.01	41- 87		14.5			
	1.3/0.04	172.6/ 7.1	1.53/0.02	15-187	SUB B/C	14.5		1986	
	4.0/0.10	33.1/ 1.3	1.51/0.01	17- 60		16.4			
	1.9/0.08	316.4/ 8.2	1.50/0.01	17-224		0.0			
	2.1/0.07	114.4/ 9.6	1.52/0.01	40-179		16.2			
	2.7/0.10	367.3/12.9	1.50/0.01	17-224	SUB B	16.2		1985	
	4.3/0.12	30.5/ 1.1	1.50/0.01	15- 59		16.9			
	1.6/0.07	266.0/13.6	1.50/0.03	22-274		0.0			
	3.3/0.13	302.6/ 6.1	1.48/0.01	28-244		17.7			
	4.6/0.14	339.1/ 4.1	1.49/0.01	15-274	SUB B	17.4		1985	
	5.7/0.49	19.5/ 0.5	1.50/0.05	1- 57		15.6			
	1.1/0.23	15.6/ 1.0	1.52/0.13	17- 72		0.0			
	3.7/0.30	34.7/ 1.7	1.50/0.05	1- 72	SUB B	15.6		1984	MINE #809-PRODUCING
	4.1/0.11	99.6/ 2.0	1.50/0.01	1-125		16.4			
	2.8/0.05	924.0/14.1	1.50/0.01	11-274		17.3			
::::::::	3.0/0.06	1018.2/13.7	1.50/0.01	1-274		16.9		::::::::	::
	4.7/0.09	77.5/ 1.5	1.47/0.03	5- 60		18.8			
	1.4/0.08	19.8/ 0.5	1.37/0.11	17-160		0.0			
	3.2/0.38	33.0/ 0.9	1.43/0.07	28-157		19.3			
	4.1/0.06	10.5/ 0.6	1.59/0.04	68- 88		15.3			
	4.8/0.09	112.7/ 2.3	1.47/0.03	5-160	SUB B	18.8		1982	MINE #1734-NOT PRODUCING
	3.4/0.10	6.4/ 1.4	1.48/0.01	19- 59		0.0			
	1.4/0.08	34.4/ 5.7	1.41/0.01	101-263		0.0			
	3.5/0.12	250.0/ 5.7	1.48/0.01	31-268		17.5			
	3.7/0.13	256.4/10.3	1.48/0.01	19-268	SUB B	17.5		1986	
	0.8/0.02	76.0/ 4.7	1.47/0.07	212-283		0.0			
	4.2/0.08	373.8/ 6.7	1.50/0.00	105-289		17.4			
	4.3/0.08	373.8/ 6.0	1.50/0.00	105-289	SUB B	17.4		1986	
	1.3/0.09	66.6/17.1	1.55/0.01	83-140		0.0			
	2.7/0.07	271.5/ 6.2	1.47/0.01	75-189		17.9			
	3.0/0.08	271.5/ 6.2	1.48/0.01	75-189	SUB B	17.9		1986	
	2.7/0.11	43.2/ 1.0	1.52/0.05	5- 57		15.4			
	1.6/0.20	28.3/ 0.9	1.53/0.06	12-138		0.0			
	2.1/0.12	47.1/ 1.6	1.55/0.08	16-106		15.1			
	2.5/0.10	107.9/ 2.3	1.53/0.04	5-138	SUB B	15.4		1982	

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
ARDLEY																
6	HUXLEY	SURF	110/	9/	93	0.39	44/	4/	36	<0.1	0.2	0.2	44/	4/	36	1
		U G THN	21/	4/	12	0.01	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	88/	7/	74	0.34	31/	3/	25	0.0	0.0	0.0	31/	3/	25	1
			219/	12/	195	0.33	75/	5/	65	<0.1	0.3	0.3	75/	5/	65	1
7	TROCHU	SURF	7/	2/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THN	247/	22/	203	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	821/	50/	721	0.64	519/	31/	458	0.0	0.0	0.0	519/	31/	458	2
			1075/	48/	978	0.47	519/	31/	458	0.0	0.0	0.0	519/	31/	458	3
8	THREE HILLS	SURF	55/	4/	46	0.28	16/	2/	13	0.3	1.0	1.3	15/	2/	12	1
		U G THN	50/	6/	38	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	119/	7/	104	0.47	59/	5/	49	0.0	0.0	0.0	59/	5/	49	1
			223/	10/	202	0.32	75/	5/	65	0.3	1.0	1.3	73/	5/	64	1
9	GHOSTPINE CREEK	SURF	31/	3/	24	0.73	24/	3/	18	<0.1	<0.1	<0.1	24/	3/	18	1
		U G THN	16/	4/	9	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	8/	2/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			55/	6/	43	0.41	24/	3/	18	<0.1	<0.1	<0.1	24/	3/	18	1
10	CARBON	SURF	3/	0/	2	0.03	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	25/	1/	22	0.06	1/	0/	1	0.0	1.4	1.4	0/	0/	0	1
			28/	2/	25	0.06	1/	0/	1	<0.1	1.4	1.4	0/	0/	0	1
		SURF	952/	24/	905	0.41	389/	11/	367	0.5	1.6	2.1	387/	11/	365	
		U G	6880/	110/	6661	0.56	3892/	68/	3756	0.0	1.5	1.5	3891/	68/	3754	
			7833/	112/	7609	0.54	4281/	69/	4143	0.5	3.1	3.7	4277/	69/	4139	
BARRHEAD																
1	SHOAL LAKE	U G THN	110/	15/	80	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
			110/	15/	80	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
2	BLOOMSBURY	SURF	187/	22/	142	0.45	81/	8/	64	0.0	<0.1	<0.1	81/	8/	64	2
		U G THN	148/	13/	121	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	15/	4/	7	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			349/	26/	297	0.22	81/	8/	64	0.0	<0.1	<0.1	81/	8/	64	3
3	LAWTON	SURF	31/	16/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	83/	7/	70	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	29/	4/	21	0.52	17/	3/	11	0.0	0.0	0.0	17/	3/	11	1
		U G THK	20/	5/	10	0.44	9/	2/	4	0.0	0.0	0.0	9/	2/	4	1
			163/	18/	127	0.14	25/	4/	18	0.0	0.0	0.0	25/	4/	18	3
		SURF	218/	27/	164	0.39	81/	8/	64	0.0	<0.1	<0.1	81/	8/	64	
		U G	404/	22/	359	0.05	25/	4/	18	0.0	0.0	0.0	25/	4/	18	
			622/	35/	552	0.16	106/	9/	88	0.0	<0.1	<0.1	106/	9/	88	
BATTLE RIVER																
1	DRIEDMEAT LAKE	SURF	258/	15/	227	0.44	112/	5/	101	0.0	<0.1	<0.1	112/	5/	101	4
		U G THN	332/	30/	273	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	4
		U G MED	323/	25/	272	0.62	200/	16/	168	0.0	0.0	0.0	200/	16/	168	2
			913/	55/	804	0.34	312/	19/	273	0.0	<0.1	<0.1	312/	19/	274	5

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED M V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	2.1/0.10	36.2/ 0.8	1.45/0.08	6- 48		18.0			
	1.1/0.17	12.8/ 0.6	1.45/0.19	15- 57		0.0			
	2.1/0.09	28.5/ 0.9	1.50/0.09	30-103		18.3			
	1.9/0.08	76.6/ 1.6	1.47/0.06	6-103	SUB A/B	18.0		1982	
	1.6/0.07	3.3/ 0.8	1.42/0.01	13- 24		0.0			
	1.3/0.08	132.6/ 9.1	1.48/0.04	17-292		0.0			
	2.2/0.07	261.4/13.9	1.42/0.01	26-291		20.3			
	2.6/0.07	286.3/ 9.7	1.44/0.01	13-292	SUB A/B	20.3		1986	
	1.8/0.09	20.9/ 0.5	1.43/0.07	8- 42		18.4			
	1.0/0.07	33.1/ 0.9	1.47/0.15	15-110		0.0			
	1.9/0.05	41.8/ 1.0	1.46/0.07	28-103		17.7			
	1.7/0.05	92.9/ 2.0	1.45/0.04	8-110	SUB A/B	18.0		1982	
	1.9/0.09	11.8/ 0.4	1.40/0.13	8- 32		21.1			
	1.0/0.18	11.7/ 0.9	1.37/0.17	10- 35		0.0			
	1.6/0.14	3.6/ 0.9	1.35/0.04	27- 29		0.0			
	1.5/0.11	27.1/ 0.7	1.39/0.10	8- 32	SUB A/B	21.1		1982	
	1.2/0.03	2.0/ 0.3	1.36/0.02	10- 12		0.0			
	1.2/0.02	14.7/ 0.8	1.42/0.02	22- 69		0.0			
	1.2/0.02	16.6/ 0.9	1.41/0.02	10- 69	SUB A	0.0			
	3.2/0.05	201.2/ 2.9	1.47/0.02	5- 60		18.2			
	3.3/0.04	1420.7/17.1	1.48/0.01	10-292		17.9			
:::::::	3.3/0.03	1621.9/17.5	1.48/0.01	5-292		17.9			:::
	1.5/0.19	50.0/ 2.1	1.47/0.02	11- 61		0.0			
	1.5/0.19	50.0/ 2.1	1.47/0.02	11- 61	SUB C	0.0			
	1.9/0.20	70.1/ 3.6	1.40/0.02	1- 36		17.3			
	1.1/0.08	94.6/ 4.9	1.40/0.02	8- 71		0.0			
	2.0/0.09	5.2/ 1.3	1.40/0.02	30- 52		0.0			
	1.5/0.10	161.9/ 6.2	1.40/0.01	1- 71	SUB C	17.3			
	2.6/1.22	8.1/ 1.4	1.45/0.02	10- 55		0.0			
	0.9/0.07	63.8/ 1.7	1.45/0.02	16- 90		0.0			
	2.3/0.23	8.4/ 0.7	1.45/0.02	73- 84		16.5			
	4.4/0.12	3.0/ 0.8	1.45/0.02	84- 84		16.5			
	1.6/0.13	70.6/ 5.2	1.45/0.01	10- 90	SUB B/C	16.5			
	2.0/0.22	78.2/ 4.0	1.41/0.02	1- 55		17.3			
	1.3/0.06	208.4/ 5.9	1.44/0.01	8- 90		16.5			
:::::::	1.5/0.07	282.6/ 8.4	1.43/0.01	1- 90		17.1			:::
	3.5/0.18	52.8/ 1.4	1.39/0.02	9- 55		18.6			
	1.9/0.16	119.5/ 2.9	1.46/0.02	13-125		0.0			
	2.6/0.18	82.3/ 2.3	1.51/0.02	29-101		18.6			
	3.5/0.19	181.9/ 4.4	1.45/0.02	9-125	SUB B/C	18.6			

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES													
BATTLE RIVER																
2	MEETING CREEK	SURF	111/	11/	90	0.50	60/	7/	45	<0.1	<0.1	<0.1	60/	7/	45	2
		U G THN	272/	16/	241	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	209/	13/	179	0.37	84/	9/	67	0.0	<0.1	<0.1	84/	9/	67	1
		U G THK	46/	6/	35	0.37	19/	3/	13	0.0	0.0	0.0	19/	3/	13	1
			638/	25/	580	0.24	162/	11/	139	<0.1	0.1	0.1	162/	11/	139	3
3	HEISLER	SURF	125/	6/	113	0.65	82/	4/	73	0.0	0.1	0.1	82/	4/	73	2
		U G THN	48/	3/	42	0.00	0/	0/	0	0.0	0.1	0.1	0/	0/	0	1
		U G MED	4/	0/	3	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			177/	7/	163	0.45	82/	4/	73	0.0	0.2	0.2	82/	4/	73	2
4	DONALDA	SURF	80/	12/	57	0.00	15/	7/	0	0.0	<0.1	<0.1	15/	7/	0	2
		U G THN	199/	24/	151	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
		U G MED	116/	23/	71	0.37	41/	7/	26	0.0	<0.1	<0.1	41/	7/	27	1
			395/	35/	325	0.10	56/	11/	34	0.0	<0.1	<0.1	56/	11/	34	3
5	FORESTBURG	SURF	42/	1/	39	0.58	24/	1/	23	15.9	0.3	16.2	8/	1/	7	2
			42/	1/	39	0.58	24/	1/	23	15.9	0.3	16.2	8/	1/	7	2
6	CENTRAL BATTLE R.	SURF	164/	6/	152	0.65	106/	4/	99	28.8	0.1	28.9	78/	4/	70	2
		U G THN	23/	1/	21	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	2/	0/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			188/	6/	177	0.56	106/	4/	99	28.8	0.1	28.9	78/	4/	70	2
7	PAINTEARTH	SURF	58/	2/	54	0.71	43/	2/	38	<0.1	<0.1	<0.1	43/	2/	38	3
		U G THN	10/	1/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	7/	1/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			75/	2/	71	0.54	43/	2/	38	<0.1	<0.1	<0.1	43/	2/	38	3
8	GADSBY	SURF	158/	7/	144	0.57	90/	4/	82	<0.1	0.1	0.1	90/	4/	81	2
		U G THN	88/	7/	73	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
		U G MED	48/	3/	42	0.20	11/	1/	9	0.0	0.0	0.0	11/	1/	9	1
			293/	11/	272	0.34	101/	5/	92	<0.1	0.1	0.1	101/	5/	92	2
9	HALKIRK	SURF	79/	4/	71	0.60	47/	2/	42	<0.1	<0.1	<0.1	47/	2/	42	2
		U G TIIN	61/	3/	56	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	10/	0/	9	0.07	1/	0/	1	0.0	<0.1	<0.1	1/	0/	1	1
			150/	5/	140	0.31	48/	2/	43	<0.1	<0.1	<0.1	48/	2/	43	2
10	CASTOR	SURF	141/	5/	131	0.63	89/	4/	82	0.1	0.3	0.5	89/	4/	82	2
		U G THN	62/	2/	58	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	4/	0/	4	0.51	2/	0/	2	0.0	0.0	0.0	2/	0/	2	1
			207/	6/	196	0.43	92/	4/	85	0.1	0.3	0.5	91/	4/	84	2
11	SULLIVAN LAKE	SURF	294/	13/	268	0.71	207/	9/	189	<0.1	<0.1	<0.1	207/	9/	189	3
		U G THN	346/	25/	302	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	220/	18/	184	0.59	137/	14/	109	0.0	0.0	0.0	137/	14/	109	1
			859/	31/	797	0.39	344/	16/	311	<0.1	<0.1	<0.1	344/	16/	310	3
		SURF	1508/	31/	1445	0.58	874/	18/	839	44.9	1.0	45.9	829/	18/	793	
		U G	2430/	71/	2287	0.19	494/	26/	442	0.0	0.2	0.2	494/	26/	442	
			3938/	78/	3782	0.35	1369/	31/	1306	44.9	1.2	46.1	1323/	31/	1260	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
2.1/0.19	39.4/ 0.9	1.34/0.02	2- 51			18.3			
1.3/0.07	157.3/ 3.5	1.33/0.02	10-137			0.0			
2.5/0.16	63.0/ 1.6	1.34/0.02	27-124			18.3			
4.2/0.26	8.2/ 0.8	1.34/0.02	57-111			18.3			
2.3/0.07	208.8/ 4.6	1.34/0.02	2-137		SUB C	18.3			
1.9/0.08	50.5/ 1.3	1.30/0.02	2- 51			20.2			
1.0/0.05	36.3/ 0.9	1.32/0.02	8- 52			0.0			
1.8/0.05	1.6/ 0.2	1.35/0.02	22- 30			0.0			
1.6/0.04	85.9/ 2.1	1.31/0.02	2- 52		SUB B/C	20.2			
2.3/0.32	26.6/ 0.8	1.31/0.02	5- 47			0.0			
5.2/0.26	65.5/ 1.6	1.38/0.05	12-165			0.0			
2.8/0.53	29.6/ 1.2	1.40/0.02	47-133			17.1			
3.1/0.26	92.2/ 2.0	1.38/0.02	5-165		SUB C	17.1			
1.8/0.06	16.7/ 0.2	1.37/0.00	15			17.8			
1.8/0.06	16.7/ 0.2	1.37/0.00	15		SUB C	17.8		1984	MINE #1578 - NOT PRODUCING
2.4/0.05	47.2/ 0.9	1.42/0.03	1- 45			18.3			
1.0/0.03	16.6/ 0.3	1.43/0.05	9- 45			0.0			
1.7/0.08	0.8/ 0.0	1.42/0.11	22- 29			0.0			
2.1/0.05	63.7/ 1.3	1.42/0.03	1- 45		SUB C	18.3		1984	MINE #S1046,1781-PRODUCING
3.3/0.07	12.3/ 0.2	1.41/0.03	1- 50			17.7			
1.3/0.08	5.5/ 0.1	1.43/0.08	11- 48			0.0			
1.6/0.04	3.0/ 0.1	1.45/0.17	25- 47			0.0			
2.8/0.04	19.0/ 0.3	1.42/0.02	1- 50		SUB C	17.7			
2.1/0.07	54.2/ 1.1	1.41/0.03	1- 53			18.7			
1.2/0.09	51.2/ 1.0	1.40/0.04	8- 73			0.0			
1.9/0.05	18.1/ 0.4	1.42/0.07	20- 68			18.2			
1.8/0.06	118.1/ 2.4	1.41/0.03	1- 73		SUB C	18.7			
1.8/0.07	33.1/ 0.8	1.33/0.02	2- 49			18.5			
1.1/0.04	42.1/ 1.0	1.32/0.02	11- 65			0.0			
1.7/0.03	4.3/ 0.2	1.36/0.02	16- 52			18.5			
1.5/0.04	73.8/ 1.2	1.33/0.02	2- 65		SUB C	18.5			
1.8/0.05	56.9/ 1.2	1.35/0.02	1- 43			17.9			
1.0/0.02	48.1/ 1.0	1.33/0.05	9- 54			0.0			
1.9/0.06	1.6/ 0.1	1.35/0.02	27- 45			17.9			
1.4/0.03	106.6/ 2.2	1.35/0.02	1- 54		SUB C	17.9			
2.4/0.09	91.4/ 1.8	1.34/0.02	1- 54			17.8			
3.7/0.10	155.1/ 3.1	1.31/0.05	8-142			0.0			
2.5/0.19	63.8/ 1.5	1.38/0.02	24-137			17.8			
2.5/0.06	254.1/ 5.1	1.34/0.02	1-142		SUB C	17.8			
2.3/0.04	481.1/ 3.7	1.36/0.01	55			18.0			
2.4/0.06	742.1/ 5.8	1.39/0.01	8-165			18.2			
2.3/0.04	1220.7/10.5	1.38/0.01	165			18.1			

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES													
BLACKFOOT																
1		SURF	163/	9/	144	0.72	116/	7/	103	0.0	0.2	0.2	116/	7/	103	3
		U G THN	70/	9/	53	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	53/	7/	39	0.48	28/	4/	19	0.0	0.0	0.0	28/	4/	19	2
			286/	16/	254	0.50	144/	8/	128	0.0	0.2	0.2	144/	8/	128	3
		SURF	163/	9/	144	0.72	116/	7/	103	0.0	0.2	0.2	116/	7/	103	
		U G	123/	11/	100	0.19	28/	4/	19	0.0	0.0	0.0	28/	4/	19	
			286/	16/	254	0.50	144/	8/	128	0.0	0.2	0.2	144/	8/	128	
BOW ISLAND																
1	NORTH	SURF	12/	2/	9	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	2
		U G THN	76/	6/	64	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	16/	1/	14	0.12	2/	0/	2	0.0	<0.1	<0.1	2/	0/	2	1
			104/	7/	90	0.02	2/	0/	2	<0.1	0.1	0.1	2/	0/	2	2
2	WINIFRED	U G THN	108/	11/	87	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	15/	1/	12	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			123/	11/	101	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
3	SOUTH	SURF	22/	2/	17	0.65	14/	1/	11	0.0	<0.1	<0.1	14/	1/	11	2
		U G THN	64/	4/	56	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	5/	2/	2	0.00	2/	1/	0	0.0	0.0	0.0	2/	1/	0	1
			91/	6/	80	0.16	16/	2/	13	0.0	<0.1	<0.1	16/	2/	13	2
		SURF	34/	3/	28	0.41	14/	1/	11	<0.1	<0.1	<0.1	14/	1/	11	
		U G	284/	14/	256	0.01	4/	1/	2	0.0	0.1	0.1	4/	1/	2	
			318/	14/	289	0.05	18/	2/	15	<0.1	0.1	0.1	18/	2/	15	
BROOKS																
1	WEST BROOKS	U G THN	73/	11/	51	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	77/	9/	58	0.68	52/	6/	40	0.0	0.0	0.0	52/	6/	40	1
			149/	12/	125	0.32	52/	6/	40	0.0	0.0	0.0	52/	6/	40	2
2	BOW CITY-KITSIM	SURF	135/	4/	128	0.80	108/	3/	102	1.2	<0.1	1.2	107/	3/	101	3
		U G THN	51/	5/	41	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	177/	5/	167	0.64	114/	3/	107	0.0	0.0	0.0	114/	3/	107	1
			363/	6/	351	0.61	222/	4/	213	1.2	<0.1	1.2	221/	4/	212	3
3	LONESOME LAKE	SURF	10/	1/	8	0.27	3/	0/	2	<0.1	<0.1	<0.1	3/	0/	2	2
		U G THN	20/	2/	16	0.01	0/	0/	0	0.0	0.2	0.2	0/	0/	0	2
			31/	2/	27	0.09	3/	0/	2	<0.1	0.2	0.2	3/	0/	2	3
		SURF	146/	3/	140	0.75	111/	3/	105	1.2	<0.1	1.2	110/	3/	104	
		U G	397/	14/	370	0.41	166/	7/	152	0.0	0.2	0.2	165/	7/	152	
			543/	14/	515	0.51	277/	7/	262	1.2	0.2	1.4	276/	7/	261	
BUFFALO HILL																
1	BUFFALO HILL WEST	U G THN	473/	99/	275	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	644/	73/	497	0.68	438/	50/	338	0.0	0.0	0.0	438/	50/	338	2
		U G THK	253/	60/	132	0.49	114/	24/	66	0.0	0.0	0.0	114/	24/	66	1
			1370/	134/	1101	0.40	552/	56/	441	0.0	0.0	0.0	552/	56/	441	5

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	3.9/0.18	28.8/ 0.7	1.44/0.03	5- 55		18.4			
	1.8/0.21	26.8/ 0.9	1.44/0.05	13-105		0.0			
	2.7/0.27	13.4/ 0.7	1.46/0.10	31- 86		17.9			
	3.4/0.16	58.4/ 1.3	1.44/0.03	5-105	SUB B	18.4			
	3.9/0.18	28.8/ 0.7	1.44/0.03	5- 55		18.4			
	2.9/0.22	29.7/ 0.9	1.45/0.05	13-105		17.9			
::::::::	3.4/0.16	58.4/ 1.3	1.44/0.03	5-105		18.4			::
	1.5/0.22	6.0/ 0.4	1.38/0.02	3- 26		0.0			
	1.2/0.08	45.4/ 2.0	1.39/0.02	17- 62		0.0			
	1.6/0.04	7.1/ 0.4	1.37/0.02	37- 52		19.6			
	1.3/0.07	57.3/ 2.3	1.39/0.02	3- 62	SUB B	19.6			
	1.3/0.12	61.2/ 1.2	1.36/0.02	25- 58		0.0			
	1.7/0.13	6.6/ 0.4	1.35/0.02	31- 36		0.0			
	1.3/0.11	67.8/ 1.4	1.36/0.02	25- 58	SUB B	0.0			
	1.4/0.09	11.0/ 0.9	1.40/0.02	5- 29		19.4			
	0.9/0.05	48.3/ 1.6	1.40/0.02	11- 53		0.0			
	2.0/0.23	1.8/ 0.6	1.40/0.02	23- 30		0.0			
	1.1/0.04	61.1/ 3.0	1.40/0.02	5- 53	SUB B	19.4			
	1.4/0.09	17.0/ 1.0	1.39/0.01	3- 29		19.4			
	1.2/0.05	169.1/ 3.0	1.38/0.01	11- 62		19.6			
::::::::	1.2/0.05	186.2/ 3.9	1.38/0.01	3- 62		19.4			::
	1.4/0.15	37.1/ 3.6	1.45/0.02	58-134		0.0			
	1.8/0.15	28.8/ 2.5	1.45/0.01	65-127		18.7			
	1.6/0.11	65.3/ 3.1	1.45/0.01	58-134	SUB A/B	18.7		1987	
	2.2/0.04	42.7/ 0.9	1.42/0.01	7- 56		19.8			
	1.2/0.03	30.4/ 2.8	1.42/0.01	16- 86		0.0			
	1.8/0.04	71.5/ 1.2	1.40/0.01	26- 89		20.3			
	1.8/0.02	142.6/ 1.4	1.41/0.01	7- 89	SUB A/B	20.1		1987	
	1.2/0.06	6.1/ 0.5	1.46/0.01	7- 27		17.9			
	1.0/0.05	14.6/ 1.3	1.43/0.01	13- 63		0.0			
	1.0/0.04	20.6/ 1.1	1.44/0.01	7- 63	SUB A/B	17.9		1987	
	2.1/0.03	48.8/ 1.0	1.42/0.01	7- 56		19.8			
	1.6/0.04	179.7/ 5.1	1.42/0.01	13-134		19.8			
::::::::	1.7/0.03	228.5/ 3.4	1.42/0.00	7-134		19.8			::
	2.0/0.41	169.2/ 5.1	1.40/0.05	79-431		0.0			
	3.4/0.35	129.4/ 4.9	1.46/0.05	120-446		19.7			
	4.4/0.70	40.3/ 3.5	1.41/0.22	304-340		21.1			
	5.1/0.25	187.2/ 2.2	1.43/0.12	79-446	SUB A	20.0		1981	

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
BUFFALO HILL																
2	BUFFALO HILL EAST	U G THN	311/	55/	201	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	421/	58/	304	0.61	286/	51/	185	0.0	0.0	0.0	286/	51/	185	2
		U G THK	455/	54/	347	0.37	205/	39/	128	0.0	0.0	0.0	205/	39/	128	1
			1187/	97/	994	0.37	491/	64/	364	0.0	0.0	0.0	491/	64/	364	4
3	VULCAN	U G THN	76/	22/	31	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	108/	29/	50	0.68	73/	20/	34	0.0	0.0	0.0	73/	20/	34	1
			183/	34/	116	0.29	73/	20/	34	0.0	0.0	0.0	73/	20/	34	2
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	2741/	169/	2402	0.39	1115/	87/	941	0.0	0.0	0.0	1115/	87/	941	
			2741/	169/	2402	0.39	1115/	87/	941	0.0	0.0	0.0	1115/	87/	941	
CHAIN LAKES																
1	SPIERS LAKE	U G THN	2/	1/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	17/	6/	4	0.68	11/	4/	3	0.0	0.0	0.0	11/	4/	3	1
			18/	6/	6	0.52	11/	4/	3	0.0	0.0	0.0	11/	4/	3	2
2	PEARL LAKE	SURF	28/	6/	15	0.11	3/	1/	2	0.0	0.0	0.0	3/	1/	2	2
		U G THN	43/	6/	32	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	12/	2/	8	0.54	8/	2/	4	0.0	0.0	0.0	8/	2/	4	1
			83/	9/	65	0.10	11/	2/	7	0.0	0.0	0.0	11/	2/	7	2
3	VICTORIA LAKE	SURF	8/	1/	7	0.14	2/	0/	1	<0.1	<0.1	<0.1	2/	0/	1	1
		U G THN	23/	2/	19	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			30/	2/	26	0.04	2/	0/	1	<0.1	<0.1	<0.1	2/	0/	1	1
		SURF	36/	7/	23	0.14	5/	1/	3	<0.1	<0.1	<0.1	5/	1/	3	
		U G	96/	9/	78	0.13	20/	5/	10	0.0	0.0	0.0	20/	5/	10	
			132/	11/	110	0.13	24/	5/	15	<0.1	<0.1	<0.1	24/	5/	15	
DRUMHELLER																
1	MORRIN	U G THN	136/	32/	73	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		U G MED	59/	30/	0	0.00	40/	20/	0	0.0	0.0	0.0	40/	20/	0	2
			195/	45/	106	0.00	40/	20/	0	0.0	0.0	0.0	40/	20/	0	9
2	MUNSON	SURF	10/	3/	3	0.14	0/	0/	0	0.2	0.2	0.4	0/	0/	0	2
		U G THN	658/	43/	572	0.01	5/	0/	5	0.0	5.5	5.5	0/	0/	0	5
		U G MED	436/	28/	379	0.64	292/	25/	243	0.0	5.5	5.5	286/	25/	237	2
		U G THK	101/	32/	37	0.45	45/	14/	17	0.0	0.0	0.0	45/	14/	17	1
			1205/	70/	1064	0.27	343/	29/	286	0.2	11.2	11.4	332/	29/	275	6
3	KNEEHILL	SURF	32/	3/	26	0.18	5/	0/	5	<0.1	4.8	4.8	0/	0/	0	2
		U G THN	53/	4/	45	0.13	5/	0/	5	0.0	5.3	5.3	0/	0/	0	2
		U G MED	35/	2/	31	0.47	17/	1/	15	0.0	4.7	4.7	12/	1/	10	1
			120/	5/	110	0.22	27/	1/	25	<0.1	14.9	14.9	12/	1/	10	2
4	ELADESOR	U G THN	330/	29/	272	0.01	4/	0/	4	0.0	3.6	3.6	0/	0/	0	4
		U G MED	206/	15/	176	0.61	126/	9/	107	0.0	2.7	2.7	123/	9/	104	1
			536/	33/	471	0.24	129/	9/	111	0.0	6.4	6.4	123/	9/	104	4

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	2.1/0.36	104.5/ 3.8	1.43/0.04	65-359		0.0			
	3.3/0.35	87.7/ 7.2	1.46/0.05	67-367		19.1			
	6.4/0.72	50.2/ 2.0	1.41/0.01	214-304		20.5			
	6.6/0.18	125.8/ 6.9	1.43/0.04	65-367	SUB A	19.9		1984	
	1.2/0.28	45.6/ 4.3	1.39/0.20	161-375		0.0			
	2.0/0.35	39.7/ 5.4	1.37/0.21	170-378		23.6			
	1.6/0.22	82.0/ 5.2	1.38/0.15	161-378	HVC/SUB A	23.6		1983	
	0.0/0.00	0.0/ 0.0	0.00/0.00			0.0			
	4.9/0.14	395.0/ 9.8	1.43/0.06	65-446		20.1			
::::::::	4.9/0.14	395.0/ 9.8	1.43/0.06	65-446		20.1			::
	0.6/0.07	1.6/ 0.5	1.43/0.03	50- 55		0.0			
	2.6/0.46	4.6/ 1.5	1.39/0.07	65-105		17.4			
	2.1/0.47	6.2/ 1.6	1.39/0.07	50-105	SUB C	17.4		1983	
	2.3/0.50	8.1/ 0.6	1.50/0.02	8- 30		14.5			
	1.4/0.17	21.2/ 1.3	1.50/0.02	12- 46		0.0			
	2.5/0.21	3.2/ 0.4	1.50/0.02	21- 46		14.5			
	1.8/0.16	31.1/ 1.8	1.50/0.01	8- 46	SUB C	14.5			
	1.1/0.06	4.7/ 0.3	1.45/0.02	5- 19		16.6			
	0.9/0.04	16.9/ 1.0	1.45/0.02	11- 55		0.0			
	1.0/0.04	21.6/ 1.1	1.45/0.02	5- 55	SUB C	16.6			
	1.9/0.32	12.9/ 0.8	1.49/0.02	5- 30		15.3			
	1.4/0.09	46.1/ 3.1	1.47/0.02	11-105		16.2			
::::::::	1.5/0.10	59.0/ 3.1	1.47/0.01	5-105		16.0			::
	5.5/0.76	17.4/ 3.2	1.43/0.06	65-285		0.0			
	3.6/1.63	10.9/ 2.1	1.50/0.10	170-186		0.0			
	7.7/1.05	17.4/ 3.2	1.45/0.04	65-285	SUB B	0.0			
	1.8/0.58	3.9/ 0.3	1.38/0.16	4- 27		0.0			
	3.5/0.20	133.2/ 3.1	1.43/0.03	15-298		0.0			
	3.1/0.17	94.8/ 2.3	1.49/0.04	27-225		17.7			
	4.2/0.50	16.5/ 2.8	1.47/0.35			18.7			
	5.7/0.28	145.8/ 3.4	1.46/0.03	4-298	SUB A/B	17.9			
	2.0/0.17	11.4/ 0.3	1.38/0.03	2- 23		0.0			
	1.4/0.10	26.4/ 0.7	1.41/0.03	30-217		0.0			
	1.9/0.07	12.5/ 0.3	1.44/0.06	27-168		19.5			
	1.7/0.05	49.1/ 1.2	1.41/0.03	2-217	SUB A	19.5			
	2.6/0.17	86.9/ 4.7	1.44/0.03	34-272		0.0			
	2.5/0.08	57.4/ 3.1	1.47/0.06	61-154		18.4			
	3.2/0.07	115.1/ 6.1	1.45/0.03	34-272	SUB B	18.4			

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
DRUMHELLER																
5	ROSEDALE	SURF	10/	1/	8	0.41	5/	1/	3	0.2	0.2	0.4	4/	1/	3	2
		U G THN	40/	3/	34	0.01	0/	0/	0	0.0	0.4	0.4	0/	0/	0	2
		U G MED	80/	3/	73	0.59	48/	2/	43	0.0	5.6	5.6	42/	2/	38	1
			131/	7/	118	0.41	53/	3/	48	0.2	6.2	6.5	47/	3/	42	2
6	MCCONNELL COULEE	SURF	6/	2/	3	0.01	0/	0/	0	<0.1	≤0.1	≤0.1	0/	0/	0	1
		U G THN	13/	2/	10	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			19/	2/	14	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	2
7	EAST COULEE	SURF	1/	0/	1	0.19	0/	0/	0	0.0	0.2	0.2	0/	0/	0	1
		U G THN	69/	16/	37	0.03	1/	0/	1	0.0	1.1	1.1	0/	0/	0	3
		U G MED	48/	3/	41	0.06	2/	0/	2	0.0	2.4	2.4	0/	0/	0	1
			118/	16/	85	0.04	4/	0/	4	0.0	3.7	3.7	0/	0/	0	3
8	WESTERN MONARCH	SURF	1/	0/	0	0.11	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	1
		U G THN	115/	10/	95	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	109/	5/	99	0.54	60/	4/	53	0.0	10.4	10.4	50/	4/	43	1
			225/	11/	203	0.26	60/	4/	53	<0.1	10.4	10.4	50/	4/	43	3
9	DELIA	SURF	17/	2/	12	0.90	14/	2/	11	<0.1	≤0.1	≤0.1	14/	2/	11	2
		U G THN	5/	1/	2	0.01	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			21/	3/	16	0.69	14/	2/	11	<0.1	<0.1	<0.1	14/	2/	11	2
10	NORTH HANDHILLS	SURF	14/	3/	7	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	113/	25/	64	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
			127/	25/	77	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
11	LITTLE FISH LAKE	U G THN	78/	14/	50	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			78/	14/	50	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
12	CIRCUS COULEE	SURF	13/	5/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	98/	13/	73	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	41/	7/	26	0.44	16/	2/	12	0.0	0.0	0.0	16/	2/	12	1
			152/	16/	121	0.09	16/	2/	12	0.0	0.0	0.0	16/	2/	12	3
13	EAST HANDHILLS	SURF	52/	5/	43	0.83	43/	4/	36	<0.1	≤0.1	≤0.1	43/	4/	36	2
		U G THN	63/	4/	54	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
		U G MED	2/	1/	0	0.50	1/	0/	0	0.0	0.0	0.0	1/	0/	0	1
			117/	6/	105	0.38	44/	2/	40	<0.1	<0.1	0.1	44/	2/	40	3
		SURF	154/	9/	136	0.45	67/	3/	62	0.5	5.4	5.9	61/	3/	56	
		U G	2889/	97/	2694	0.22	683/	36/	590	0.0	47.4	47.4	616/	36/	543	
			3043/	97/	2848	0.23	730/	37/	657	0.5	52.8	53.3	677/	37/	604	
EAST BROOKS																
1		SURF	215/	8/	199	0.72	156/	6/	144	0.0	0.0	0.0	156/	6/	144	3
		U G THN	56/	4/	47	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	7/	1/	4	0.67	5/	1/	3	0.0	0.0	0.0	5/	1/	3	1
			277/	9/	260	0.57	160/	6/	149	0.0	0.0	0.0	160/	6/	149	3
		SURF	215/	8/	199	0.72	156/	6/	144	0.0	0.0	0.0	156/	6/	144	
		U G	62/	4/	54	0.05	5/	1/	3	0.0	0.0	0.0	5/	1/	3	
			277/	9/	260	0.57	160/	6/	149	0.0	0.0	0.0	160/	6/	149	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	1.8/0.08	3.9/ 0.1	1.45/0.11	4- 24		19.2			
	1.2/0.08	24.4/ 0.8	1.39/0.06	61-152		0.0			
	2.1/0.04	27.2/ 0.7	1.43/0.04	34-122		19.7			
	1.7/0.06	55.4/ 1.4	1.42/0.04	4-152	SUB A	19.7			
	1.0/0.03	3.8/ 1.0	1.40/0.03	15- 15		0.0			
	1.2/0.06	8.2/ 1.0	1.38/0.10	61- 91		0.0			
	1.1/0.04	12.0/ 1.3	1.39/0.08	15- 91	SUB B	0.0			
	1.5/0.02	0.6/ 0.1	1.38/0.02	7- 07		0.0			
	2.0/0.45	24.5/ 0.9	1.37/0.05	46-199		0.0			
	1.9/0.05	18.3/ 0.6	1.41/0.08	53- 91		0.0			
	2.5/0.29	34.3/ 1.0	1.39/0.04	7-199	SUB B	0.0			
	2.0/0.21	0.2/ 0.1	1.40/0.09	15- 15		0.0			
	2.0/0.15	40.4/ 1.1	1.40/0.04	35-264		0.0			
	2.0/0.05	40.1/ 1.0	1.38/0.04	100-255		21.2			
	2.3/0.08	69.4/ 1.7	1.39/0.03	15-264	SUB A/B	21.2			
	1.6/0.11	7.5/ 0.8	1.39/0.08	4- 34		18.3			
	1.5/0.31	2.3/ 0.3	1.40/0.16	21- 37		0.0			
	1.6/0.11	9.8/ 1.1	1.40/0.07	4- 37	SUB C	18.3			
	1.6/0.16	6.0/ 0.8	1.39/0.24	13- 28		0.0			
	1.7/0.35	47.7/ 2.0	1.39/0.08	13-147		0.0			
	1.7/0.32	53.6/ 2.2	1.39/0.06	13-147	SUB B/C	0.0			
	1.4/0.22	38.5/ 2.1	1.43/0.08	18-133		0.0			
	1.4/0.22	38.5/ 2.1	1.43/0.08	18-133	SUB B	0.0			
	1.7/0.50	5.8/ 1.0	1.37/0.02	8- 13		0.0			
	1.6/0.17	44.7/ 2.1	1.41/0.08	14-132		0.0			
	2.6/0.19	11.3/ 0.8	1.40/0.21	28- 74		20.2			
	2.1/0.17	50.8/ 2.3	1.40/0.07	8-132	SUB B	20.2			
	1.7/0.04	21.4/ 1.7	1.44/0.03	1- 81		16.3			
	1.0/0.03	44.3/ 2.7	1.43/0.04	11- 81		0.0			
	1.8/0.03	0.6/ 0.3	1.45/0.02	42- 46		16.3			
	1.3/0.03	63.2/ 2.5	1.43/0.03	1- 81	SUB C	16.3		1985	
	1.7/0.07	64.5/ 2.4	1.41/0.03	1- 81		16.9			
	3.1/0.08	652.4/10.0	1.44/0.02	208		17.3			
::::::::	3.0/0.07	714.4/12.9	1.44/0.01	1-298		17.3			::
	1.8/0.06	83.2/ 1.3	1.42/0.01	2- 29		18.5			
	1.0/0.06	40.0/ 1.6	1.44/0.01	15- 38		0.0			
	1.6/0.06	2.9/ 0.5	1.41/0.00	25- 36		19.3			
	1.5/0.04	126.1/ 1.5	1.43/0.00	2- 38	SUB B	18.5		1988	
	1.8/0.06	83.2/ 1.3	1.42/0.01	2- 29		18.5			
	1.0/0.06	42.6/ 1.7	1.44/0.01	15- 38		19.3			
::::::::	1.5/0.04	126.1/ 1.5	1.43/0.00	2- 38		18.5			::

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
EAST EDMONTON																
1	ARDROSSAN	SURF	260/	11/	238	0.70	183/	8/	167	<0.1	0.0	<0.1	183/	8/	167	10
		U G THN	474/	26/	422	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	10/	3/	4	0.18	5/	2/	1	0.0	0.0	0.0	5/	2/	1	1
			743/	25/	692	0.25	188/	8/	172	<0.1	0.0	<0.1	188/	8/	172	11
2	COOKING LAKE	SURF	24/	12/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	849/	83/	683	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	719/	76/	568	0.63	452/	47/	359	0.0	0.0	0.0	452/	47/	359	2
		U G THK	113/	41/	30	0.45	51/	18/	14	0.0	0.0	0.0	51/	18/	14	1
			1705/	119/	1466	0.27	503/	52/	399	0.0	0.0	0.0	503/	52/	399	6
		SURF	284/	15/	253	0.66	183/	8/	167	<0.1	0.0	<0.1	183/	8/	167	
		U G	2164/	121/	1922	0.21	508/	52/	404	0.0	0.0	0.0	508/	52/	404	
::::::::::::::::::::::::::::::::::			2448/	122/	2204	0.27	691/	52/	586	<0.1	0.0	<0.1	691/	52/	586	:::::::::
FIREBAG																
1		U G THN	38/	5/	27	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		U G MED	88/	12/	65	0.31	33/	6/	20	0.0	0.0	0.0	33/	6/	20	6
		U G THK	104/	32/	40	0.22	20/	5/	9	0.0	0.0	0.0	20/	5/	9	4
			230/	35/	161	0.23	53/	8/	36	0.0	0.0	0.0	53/	8/	36	8
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	230/	35/	161	0.23	53/	8/	36	0.0	0.0	0.0	53/	8/	36	
::::::::::::::::::::::::::::::::::			230/	35/	161	0.23	53/	8/	36	0.0	0.0	0.0	53/	8/	36	:::::::::
FOX CREEK																
1	SOUTH BRUSH MTN.	SURF	331/	25/	280	0.74	247/	19/	208	0.0	0.0	0.0	247/	19/	208	3
		U G THN	84/	11/	62	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	70/	6/	58	0.42	30/	3/	24	0.0	0.0	0.0	30/	3/	24	1
			484/	28/	428	0.55	277/	20/	237	0.0	0.0	0.0	277/	20/	237	3
2	GOOSE RIVER	SURF	78/	6/	66	0.68	51/	3/	45	0.0	0.0	0.0	51/	3/	45	4
		U G THN	14/	7/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
			91/	9/	73	0.61	51/	3/	45	0.0	0.0	0.0	51/	3/	45	4
3	SNUFF MOUNTAIN	SURF	63/	17/	29	0.18	35/	15/	5	0.0	0.0	0.0	35/	15/	5	3
		U G THN	44/	7/	30	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			107/	19/	70	0.07	35/	15/	5	0.0	0.0	0.0	35/	15/	5	3
4	MEEKWAP EAST	SURF	284/	19/	247	0.64	182/	11/	159	0.0	0.0	0.0	182/	11/	159	4
		U G THN	96/	8/	79	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	58/	4/	50	0.47	27/	2/	23	0.0	0.0	0.0	27/	2/	23	1
			437/	21/	396	0.47	209/	11/	186	0.0	0.0	0.0	209/	11/	186	4
5	MEEKWAP WEST	SURF	189/	10/	169	0.77	147/	8/	131	0.0	0.0	0.0	147/	8/	131	4
		U G THN	61/	5/	50	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	9/	1/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			259/	12/	235	0.56	147/	8/	131	0.0	0.0	0.0	147/	8/	131	4
6	GIROUX	SURF	257/	26/	205	0.56	150/	18/	114	0.0	0.0	0.0	150/	18/	114	4
		U G THN	127/	20/	88	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	35/	6/	22	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			419/	33/	352	0.32	150/	18/	114	0.0	0.0	0.0	150/	18/	114	4

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	3.1/0.07	60.6/ 2.1	1.37/0.01	1- 60		18.0			
	1.9/0.07	185.1/ 6.8	1.37/0.01	13- 90		0.0			
	1.8/0.13	3.9/ 1.1	1.40/0.01	30- 47		17.5			
	2.3/0.06	234.1/ 4.9	1.37/0.01	1- 90	SUB B/C	18.0		1988	
	1.4/0.62	12.3/ 1.7	1.39/0.25	9- 17		0.0			
	3.3/0.24	182.9/10.2	1.43/0.05	32-189		0.0			
	3.1/0.25	156.0/ 8.9	1.47/0.05	37-156		17.6			
	3.8/0.63	20.5/ 5.2	1.44/0.29	84-111		17.6			
	6.5/0.24	182.9/10.2	1.44/0.03	9-189	SUB B/C	17.6			
	2.8/0.12	72.9/ 2.4	1.37/0.02	1- 60		18.0			
	4.1/0.17	368.0/12.1	1.43/0.03	13-189		17.6			
::::::::	4.1/0.11	417.0/16.5	1.42/0.02	1-189		17.7		::	
	2.1/0.28	12.6/ 0.6	1.43/0.02	55-121		0.0			
	5.4/0.67	10.9/ 0.5	1.49/0.02	42-126		15.0			
	14.3/4.30	5.2/ 0.3	1.39/0.02	53-103		15.0			
	11.2/0.83	14.3/ 1.9	1.44/0.01	47-126	LIG A	15.0	3		BITUMEN IMPREGNATED
	0.0/0.00	0.0/ 0.0	0.00/0.00			0.0			
	11.2/0.83	14.3/ 1.9	1.43/0.01	47-126		15.0			
::::::::	11.2/0.83	14.3/ 1.9	1.44/0.01	47-126		15.0		::	
	2.9/0.21	73.6/ 1.8	1.55/0.02	4- 52		13.6			
	1.2/0.15	43.6/ 1.4	1.55/0.02	18- 74		0.0			
	2.0/0.14	21.8/ 1.0	1.55/0.02	19- 73		13.6			
	2.6/0.14	121.8/ 2.7	1.55/0.02	4- 74	SUB C	13.6	3		
	3.5/0.16	14.4/ 0.9	1.55/0.02	9- 48		13.6			
	1.7/0.73	5.0/ 1.3	1.55/0.02	59- 64		0.0			
	3.0/0.17	19.4/ 1.1	1.55/0.02	9- 64	SUB C	13.6	3		
	2.5/0.65	16.1/ 1.4	1.55/0.02	3- 21		14.6			
	1.1/0.16	25.6/ 1.7	1.55/0.02	10- 66		0.0			
	1.9/0.31	37.1/ 2.1	1.55/0.02	3- 66	SUB B	14.6	3		
	3.7/0.22	48.9/ 1.2	1.55/0.02	9- 54		13.3			
	1.4/0.11	42.7/ 1.6	1.55/0.02	23- 91		0.0			
	2.0/0.11	18.1/ 0.7	1.55/0.02	23- 89		13.3			
	3.1/0.12	92.3/ 2.0	1.55/0.02	9- 91	SUB C	13.3	3		
	3.8/0.19	31.8/ 0.7	1.55/0.02	2- 52		14.0			
	1.2/0.10	33.5/ 0.8	1.55/0.02	11- 67		0.0			
	2.3/0.19	2.5/ 0.3	1.55/0.02	33- 43		0.0			
	2.5/0.09	65.7/ 1.4	1.55/0.02	2- 67	SUB C	14.0	3		
	3.8/0.36	43.6/ 1.4	1.55/0.02	4- 49		14.2			
	2.3/0.34	35.8/ 1.5	1.55/0.02	15- 79		0.0			
	2.0/0.30	11.2/ 1.2	1.55/0.02	38- 69		0.0			
	3.3/0.24	81.6/ 2.3	1.55/0.02	4- 79	SUB B/C	14.2	3		

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
FOX CREEK																
7	WASKAHIGAN	SURF	28/	3/	21	0.54	16/	2/	11	0.0	0.0	0.0	16/	2/	11	2
		U G THN	8/	1/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			36/	4/	28	0.40	16/	2/	11	0.0	0.0	0.0	16/	2/	11	2
8	ATIKKAMEK	SURF	155/	8/	139	0.73	112/	5/	102	0.0	0.0	0.0	112/	5/	102	5
		U G THN	36/	6/	24	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	16/	5/	7	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			206/	11/	184	0.55	112/	5/	102	0.0	0.0	0.0	112/	5/	102	5
		SURF	1384/	47/	1290	0.67	939/	34/	870	0.0	0.0	0.0	939/	34/	870	
		U G	655/	29/	596	0.08	57/	4/	50	0.0	0.0	0.0	57/	4/	50	
::::::::::::::::::::::::::::::::::::			2039/	55/	1929	0.48	996/	34/	927	0.0	0.0	0.0	996/	34/	927	:::::::::
GARDEN PLAIN																
1		SURF	64/	4/	57	0.73	48/	3/	42	<0.1	<0.1	<0.1	48/	3/	41	1
		U G THN	17/	1/	15	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			81/	4/	74	0.56	48/	3/	42	<0.1	<0.1	0.1	48/	3/	41	1
		SURF	64/	4/	57	0.73	48/	3/	42	<0.1	<0.1	<0.1	48/	3/	41	
		U G	17/	1/	15	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
::::::::::::::::::::::::::::::::::::			81/	4/	74	0.56	48/	3/	42	<0.1	<0.1	0.1	48/	3/	41	:::::::::
GRASSY LAKE																
1		SURF	110/	10/	90	0.86	91/	6/	78	0.4	<0.1	0.4	90/	6/	77	3
		U G THN	35/	5/	26	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
			145/	11/	123	0.63	91/	6/	78	0.4	<0.1	0.4	90/	6/	77	4
		SURF	110/	10/	90	0.86	91/	6/	78	0.4	<0.1	0.4	90/	6/	77	
		U G	35/	5/	26	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
::::::::::::::::::::::::::::::::::::			145/	11/	123	0.63	91/	6/	78	0.4	<0.1	0.4	90/	6/	77	:::::::::
HUSSAR																
1	CHANCELLOR	U G THN	586/	21/	544	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		U G MED	135/	7/	120	0.66	88/	4/	79	0.0	0.0	0.0	88/	4/	79	2
			720/	22/	677	0.12	88/	4/	79	0.0	0.0	0.0	88/	4/	79	8
2	CROWFOOT CREEK	SURF	82/	5/	71	0.56	49/	4/	40	0.0	0.0	0.0	49/	4/	40	3
		U G THN	506/	12/	483	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	7
		U G MED	336/	12/	312	0.66	222/	8/	206	0.0	0.0	0.0	222/	8/	206	5
		U G THK	49/	4/	40	0.60	28/	2/	24	0.0	0.0	0.0	28/	2/	24	1
			972/	16/	941	0.30	298/	8/	282	0.0	0.0	0.0	298/	8/	282	10
		SURF	82/	5/	72	0.57	49/	4/	41	0.0	0.0	0.0	49/	4/	41	
		U G	1611/	26/	1559	0.21	337/	8/	321	0.0	0.0	0.0	337/	8/	321	
::::::::::::::::::::::::::::::::::::			1693/	27/	1639	0.22	386/	9/	368	0.0	0.0	0.0	386/	9/	368	:::::::::
LESSER SLAVE LAKE																
1		SURF	84/	7/	69	0.55	46/	4/	38	0.0	0.0	0.0	46/	4/	38	5
		U G THN	105/	9/	88	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	7/	1/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			196/	12/	173	0.22	46/	4/	38	0.0	0.0	0.0	46/	4/	38	6
		SURF	84/	7/	69	0.55	46/	4/	38	0.0	0.0	0.0	46/	4/	38	
		U G	112/	9/	95	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
::::::::::::::::::::::::::::::::::::			196/	12/	173	0.22	46/	4/	38	0.0	0.0	0.0	46/	4/	38	:::::::::

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	2.9/0.22	6.0/ 0.6	1.55/0.02	18- 44		14.4			
	0.8/0.09	6.6/ 0.9	1.55/0.02	44- 57		0.0			
	1.8/0.15	12.6/ 0.9	1.55/0.02	18- 57	SUB B	14.4	3		
	4.7/0.19	21.2/ 0.5	1.55/0.02	7- 55		14.2			
	2.1/0.34	11.2/ 0.5	1.55/0.02	19- 69		0.0			
	2.1/0.58	4.6/ 0.5	1.55/0.02	40- 60		0.0			
	4.1/0.19	32.1/ 0.8	1.55/0.02	7- 69	SUB B/C	14.2	3		
	3.5/0.11	255.6/ 3.0	1.55/0.01	2- 55		13.8			
	2.0/0.08	211.9/ 3.2	1.55/0.01	10- 91		13.4			
::::::::	2.9/0.07	462.7/ 4.9	1.55/0.01	2- 91		13.8			::
	1.2/0.05	35.3/ 1.2	1.51/0.02	2- 26		16.6			
	0.9/0.05	13.8/ 0.6	1.40/0.02	13- 32		0.0			
	1.1/0.03	49.1/ 1.6	1.49/0.02	2- 32	SUB C	16.6			
	1.2/0.05	35.3/ 1.2	1.51/0.02	2- 26		16.6			
	0.9/0.05	13.8/ 0.6	1.40/0.02	13- 32		0.0			
::::::::	1.1/0.03	49.1/ 1.6	1.49/0.02	2- 32		16.6			::
	2.1/0.13	34.3/ 2.1	1.52/0.04	1- 40		17.0			
	1.1/0.07	20.7/ 2.2	1.52/0.07	10- 40		0.0			
	1.8/0.09	54.0/ 2.3	1.52/0.05	1- 40	SUB B	17.0		1983	
	2.1/0.13	34.3/ 2.1	1.52/0.04	1- 40		17.0			
	1.1/0.07	20.7/ 2.2	1.52/0.07	10- 40		0.0			
::::::::	1.8/0.09	54.0/ 2.3	1.52/0.05	1- 40		17.0			::
	2.1/0.06	193.1/ 3.9	1.45/0.01	17-191		0.0			
	1.9/0.07	51.2/ 2.0	1.41/0.01	94-157		20.9			
	2.6/0.06	194.8/ 3.1	1.44/0.01	17-191	SUB A	20.9		1987	
	3.3/0.11	16.8/ 0.9	1.48/0.01	22- 59		18.5			
	5.6/0.04	138.9/ 1.8	1.43/0.01	28-236		0.0			
	3.3/0.08	69.9/ 1.8	1.45/0.01	40-231		19.6			
	4.1/0.13	8.2/ 0.6	1.44/0.00	60-153		20.1			
	4.5/0.05	150.4/ 1.5	1.45/0.01	22-236	SUB A	19.6		1987	
	3.3/0.11	16.8/ 0.9	1.48/0.01	22- 59		18.5			
	3.4/0.04	331.7/ 3.6	1.45/0.01	17-236		20.0			
::::::::	3.4/0.04	345.2/ 3.1	1.45/0.01	17-236		19.9			::
	1.8/0.15	34.4/ 1.0	1.35/0.02	2- 39		13.9			
	1.2/0.09	61.8/ 1.6	1.42/0.02	10- 81		0.0			
	1.6/0.09	3.2/ 0.5	1.41/0.02	31- 57		0.0			
	1.6/0.08	88.2/ 2.2	1.39/0.02	2- 81	LIG A	13.9	3		
	1.8/0.15	34.5/ 1.0	1.35/0.02	2- 39		13.9			
	1.3/0.09	61.8/ 1.6	1.42/0.02	10- 81		0.0			
::::::::	1.6/0.08	88.2/ 2.2	1.39/0.02	2- 81		13.9			::

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
LETHBRIDGE																
1	PICTURE BUTTE	SURF	17/	2/	13	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G THN	307/	12/	282	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	4
		U G MED	615/	17/	582	0.57	350/	9/	331	0.0	4.4	4.4	345/	9/	327	1
			939/	20/	900	0.37	350/	9/	331	0.0	4.4	4.4	345/	9/	327	4
2	COALHURST	U G THN	35/	1/	33	0.12	4/	0/	4	0.0	4.0	4.0	0/	0/	0	1
		U G MED	250/	5/	240	0.59	145/	2/	141	0.0	3.8	3.8	141/	2/	137	1
			285/	5/	276	0.53	149/	2/	145	0.0	7.8	7.8	141/	2/	137	1
3	HARDIEVILLE	SURF	3/	1/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THN	49/	2/	46	0.00	0/	0/	0	0.0	0.2	0.2	0/	0/	0	1
		U G MED	22/	2/	17	0.64	11/	0/	11	0.0	10.9	10.9	0/	0/	0	1
			62/	2/	59	0.19	11/	0/	11	0.0	11.1	11.1	0/	0/	0	1
		SURF	19/	2/	16	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
		U G	1278/	20/	1238	0.40	510/	10/	491	0.0	23.3	23.3	487/	10/	468	
			1286/	20/	1246	0.39	510/	10/	491	0.0	23.3	23.3	487/	10/	468	
MAYERTHORPE																
1	BLUE RIDGE	SURF	28/	6/	17	0.00	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	3
		U G THN	36/	4/	28	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	60/	8/	45	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			125/	15/	96	0.00	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	3
2	ROCHFORT BRIDGE	SURF	48/	8/	33	0.03	6/	2/	1	<0.1	0.0	<0.1	6/	2/	1	3
		U G THN	92/	11/	69	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	44/	4/	37	0.33	16/	2/	12	0.0	0.0	0.0	16/	2/	12	1
			183/	14/	156	0.10	21/	3/	15	<0.1	0.0	<0.1	21/	3/	15	3
3	RANGETON	SURF	35/	4/	27	0.84	29/	3/	23	0.0	<0.1	<0.1	29/	3/	23	2
		U G THN	607/	27/	552	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	364/	17/	328	0.67	245/	12/	221	0.0	0.0	0.0	245/	12/	221	3
			1005/	30/	944	0.27	275/	12/	250	0.0	<0.1	<0.1	275/	12/	250	5
4	PARK COURT	SURF	161/	8/	144	0.80	129/	7/	115	0.1	<0.1	0.1	129/	7/	115	3
		U G THN	177/	10/	156	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	593/	35/	524	0.68	400/	24/	353	0.0	0.0	0.0	400/	24/	353	4
		U G THK	603/	31/	540	0.64	370/	13/	343	0.0	0.0	0.0	370/	13/	343	1
			1534/	41/	1452	0.59	899/	22/	856	0.1	<0.1	0.1	899/	22/	856	5
5	EVANSBURG	U G THN	316/	16/	283	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	1181/	52/	1076	0.63	739/	31/	677	0.0	1.8	1.8	738/	31/	676	2
		U G THK	289/	27/	235	0.62	172/	13/	146	0.0	0.0	0.0	172/	13/	146	1
			1785/	57/	1670	0.51	911/	31/	849	0.0	1.8	1.8	910/	31/	848	6
6	CHIP LAKE	U G THN	332/	35/	262	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	349/	30/	290	0.67	236/	20/	196	0.0	0.0	0.0	236/	20/	196	3
		U G THK	136/	20/	96	0.61	80/	11/	59	0.0	0.0	0.0	80/	11/	59	1
			818/	47/	724	0.38	316/	20/	275	0.0	0.0	0.0	316/	20/	275	6
		SURF	272/	13/	245	0.61	163/	7/	150	0.1	<0.1	0.1	163/	7/	150	
		U G	5178/	91/	4996	0.43	2258/	44/	2170	0.0	1.8	1.8	2256/	44/	2168	
			5449/	92/	5265	0.44	2421/	45/	2332	0.1	1.8	2.0	2419/	45/	2330	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	2.2/0.05	5.1/ 0.5	1.48/0.00	20- 43		0.0			
	1.2/0.03	181.8/ 5.5	1.46/0.01	33-346		0.0			
	2.1/0.05	201.0/ 2.4	1.45/0.00	28-310		22.1			
	1.9/0.03	336.6/ 3.4	1.45/0.00	20-346	H-V C	22.1		1987	
	1.4/0.03	18.2/ 0.5	1.41/0.00	35-182		0.0			
	1.8/0.02	95.5/ 1.3	1.45/0.00	25-286		23.0			
	1.7/0.02	113.7/ 1.3	1.44/0.00	25-286	H-V C	23.0		1987	
	1.4/0.04	1.3/ 0.3	1.43/0.00	3- 23		0.0			
	1.3/0.04	25.4/ 0.5	1.43/0.01	25-133		0.0			
	1.6/0.04	4.5/ 0.5	1.47/0.00	28-116		0.0			
	1.4/0.03	31.2/ 0.6	1.44/0.01	3-133	H-V C	0.0		1987	
	2.0/0.04	6.4/ 0.6	1.47/0.00	3- 43		0.0			
	1.8/0.02	475.1/ 4.7	1.45/0.00	25-346		22.4			
::::::::	1.8/0.02	481.5/ 3.7	1.45/0.00	3-346		22.4			::
	2.3/0.41	8.4/ 0.5	1.46/0.08	4- 46		0.0			
	1.1/0.11	21.0/ 0.7	1.50/0.05	16-227		0.0			
	2.7/0.31	14.8/ 0.8	1.52/0.04	13-229		0.0			
	2.4/0.27	34.8/ 0.9	1.50/0.03	4-229	SUB B	0.0		1983	
	2.3/0.31	14.5/ 0.7	1.42/0.10	7- 50		18.3			
	1.6/0.17	40.9/ 1.3	1.44/0.06	20- 90		0.0			
	1.9/0.09	15.4/ 0.7	1.54/0.06	33- 68		17.8			
	2.0/0.12	62.3/ 1.8	1.46/0.05	7- 90	SUB B	17.8			
	2.5/0.09	9.3/ 1.0	1.47/0.00	10- 59		17.6			
	1.9/0.08	223.8/ 4.3	1.46/0.01	16-200		0.0			
	2.3/0.07	109.1/ 4.0	1.47/0.01	48-213		18.1			
	2.4/0.06	285.3/ 4.0	1.46/0.01	10-213	SUB B	17.8		1988	NORTH PART OF FORMER JALNA DEPOSIT
	4.4/0.15	24.6/ 0.9	1.49/0.01	7- 60		17.3			
	1.1/0.05	112.0/ 4.6	1.46/0.01	16-189		0.0			
	2.9/0.12	137.2/ 5.8	1.51/0.01	51-224		17.1			
	4.0/0.15	100.6/ 3.6	1.51/0.01	61-174		16.8			
	4.4/0.10	234.1/ 3.3	1.50/0.00	7-224	SUB B	17.1		1988	PART FORMER JALNA, MINE#1739-NOT PROD.
	1.5/0.06	139.6/ 4.2	1.46/0.02	58-270		0.0			
	4.5/0.15	178.9/ 5.0	1.46/0.01	56-256		17.9			
	3.9/0.14	50.5/ 4.3	1.48/0.01	61-259		17.4			
	6.3/0.15	193.4/ 3.9	1.47/0.01	58-270	SUB B	17.9		1988	
	1.2/0.12	194.4/ 6.2	1.44/0.03	168-330		0.0			
	3.0/0.20	79.7/ 4.3	1.48/0.01	172-338		18.0			
	4.1/0.27	21.6/ 2.9	1.52/0.00	172-290		16.8			
	2.6/0.13	216.5/ 5.6	1.47/0.01	172-338	SUB B	17.8		1988	NEW DEPOSIT
	3.2/0.12	56.9/ 1.6	1.47/0.02	4- 60		17.4			
	3.6/0.05	969.5/12.0	1.48/0.00	13-338		17.5			
::::::::	3.6/0.05	1026.4/ 9.3	1.48/0.00	4-338		17.5			::

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES							MEGATONNES						
MCGREGOR LAKE																
1	NORTH	SURF	3/	1/	2	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G THN	43/	7/	29	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	7
			46/	7/	32	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	7
2	LONG COULEE	SURF	10/	0/	9	0.01	0/	0/	0	0.0	0.1	0.1	0/	0/	0	1
		U G THN	6/	0/	6	0.05	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
			16/	1/	15	0.03	0/	0/	0	0.0	0.4	0.4	0/	0/	0	1
3	SOUTH	U G THN	9/	3/	4	0.02	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	5
			9/	3/	4	0.02	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	5
		SURF	13/	1/	11	0.01	0/	0/	0	0.0	0.1	0.1	0/	0/	0	
		U G	58/	7/	43	0.01	0/	0/	0	0.0	0.4	0.4	0/	0/	0	
:::::::::::::::::::::::::::::::::::			70/	7/	56	0.01	1/	0/	1	0.0	0.5	0.5	0/	0/	0	:::::::::
MEDICINE HAT																
1	REDCLIFF	SURF	15/	8/	0	37.05	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	2
		U G THN	46/	4/	38	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	32/	5/	23	0.04	7/	3/	1	0.0	0.9	0.9	7/	3/	0	2
			93/	11/	72	0.01	7/	3/	1	<0.1	0.9	0.9	7/	3/	0	2
2	DUNMORE	SURF	25/	10/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THN	151/	10/	132	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	204/	12/	181	0.59	122/	8/	107	0.0	0.0	0.0	122/	8/	107	1
			380/	18/	344	0.31	122/	8/	107	0.0	0.0	0.0	122/	8/	107	3
3	MURRAY LAKE	SURF	16/	5/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THN	64/	7/	50	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	50/	3/	45	0.39	20/	1/	18	0.0	0.0	0.0	20/	1/	18	1
			130/	9/	111	0.16	20/	1/	18	0.0	0.0	0.0	20/	1/	18	3
4	GRANLEA	SURF	1/	0/	0	0.04	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	10/	1/	8	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			11/	1/	8	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
5	PEIGAN CREEK	SURF	23/	6/	10	0.76	16/	4/	7	0.0	0.0	0.0	16/	4/	7	5
		U G THN	133/	42/	50	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	146/	41/	64	0.68	99/	28/	44	0.0	0.0	0.0	99/	28/	44	3
			302/	68/	165	0.40	114/	24/	66	0.0	0.0	0.0	114/	24/	66	5
		SURF	79/	16/	47	0.18	16/	4/	9	<0.1	<0.1	<0.1	16/	4/	8	
		U G	837/	70/	696	0.28	248/	25/	198	0.0	0.9	0.9	247/	25/	197	
:::::::::::::::::::::::::::::::::::			915/	72/	771	0.28	264/	26/	213	<0.1	0.9	0.9	263/	26/	212	:::::::::
MORINVILLE																
1	MANOLA	SURF	62/	6/	50	0.49	31/	3/	25	0.0	0.0	0.0	31/	3/	25	3
		U G THN	65/	5/	54	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	17/	1/	15	0.59	10/	1/	9	0.0	0.0	0.0	10/	1/	9	1
			144/	8/	128	0.27	41/	3/	35	0.0	0.0	0.0	41/	3/	35	4

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	0.9/0.05	2.9/ 0.8	1.30/0.02	10- 10		0.0			
	1.2/0.16	25.3/ 2.2	1.40/0.02	10-255		0.0			
	1.2/0.15	28.2/ 2.4	1.39/0.02	10-255	SUB A	0.0			
	1.2/0.02	5.8/ 0.3	1.38/0.02	8- 15		0.0			
	0.8/0.04	5.8/ 0.2	1.37/0.02	15- 51		0.0			
	1.0/0.02	11.7/ 0.3	1.39/0.02	8- 51	HVC/SUB A	0.0			
	1.2/0.34	5.5/ 0.3	1.34/0.02	26- 30		0.0			
	1.2/0.34	5.5/ 0.3	1.34/0.02	26- 30	HVC/SUB A	0.0			
	1.1/0.02	8.7/ 0.7	1.36/0.02	8- 15		0.0			
	1.1/0.13	36.7/ 2.4	1.39/0.01	10-255		0.0			
:::::::	1.1/0.10	45.4/ 2.5	1.38/0.01	8-255		0.0			:::
	3.3/1.43	3.4/ 0.9	1.34/0.03	6- 48		0.0			
	1.2/0.10	27.4/ 0.8	1.40/0.02	35- 77		0.0			
	2.4/0.33	10.1/ 0.5	1.34/0.02	40- 69		0.0			
	1.9/0.21	35.4/ 1.1	1.38/0.02	6- 77	SUB C	0.0			
	2.7/1.06	6.8/ 0.9	1.37/0.02	6- 38		0.0			
	1.1/0.06	100.9/ 2.5	1.36/0.02	16-198		0.0			
	2.0/0.10	72.5/ 1.9	1.41/0.02	42-204		17.1			
	1.9/0.07	142.9/ 3.6	1.39/0.02	6-204	SUB C	17.1			
	1.8/0.63	6.3/ 0.0	1.36/0.02	10- 36		0.0			
	1.3/0.15	35.2/ 0.0	1.41/0.02	24-155		0.0			
	1.7/0.08	19.7/ 0.0	1.50/0.02	45-137		17.7			
	1.8/0.13	51.6/ 0.0	1.44/0.02	10-155	SUB C	17.7			
	0.7/0.10	0.5/ 0.0	1.34/0.02	6- 07		0.0			
	0.8/0.10	9.6/ 0.0	1.34/0.02	11- 35		0.0			
	0.8/0.10	10.1/ 0.0	1.33/0.02	6- 35	SUB B/C	0.0			
	3.5/0.71	4.4/ 0.5	1.44/0.24	30- 90		16.6			
	1.8/0.46	50.4/ 4.3	1.43/0.26	35-125		0.0			
	2.9/0.65	34.7/ 2.3	1.44/0.23	40-125		16.9			
	3.3/0.60	64.3/ 3.7	1.44/0.17	30-125	SUB C	16.9		1984	
	2.6/0.46	21.5/ 1.5	1.38/0.07	6- 90		16.6			
	2.1/0.12	282.9/ 5.6	1.41/0.06	11-204		17.1			
:::::::	2.1/0.14	304.4/ 6.7	1.41/0.06	6-204		17.1			:::
	2.8/0.25	15.1/ 0.5	1.47/0.02	5- 48		15.6			
	1.1/0.09	37.7/ 0.9	1.55/0.02	12- 80		0.0			
	2.0/0.05	5.4/ 0.3	1.55/0.02	38- 71		16.8			
	1.7/0.08	55.1/ 1.3	1.52/0.02	5- 80	SUB C	16.1			

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
MORINVILLE																
2	PICARDVILLE	SURF	320/	13/	294	0.62	199/	8/	183	0.1	<0.1	0.1	199/	8/	182	3
		U G THN	102/	7/	87	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	156/	9/	139	0.14	23/	2/	19	0.0	0.0	0.0	23/	2/	19	1
			577/	17/	543	0.38	222/	9/	205	0.1	<0.1	0.1	222/	9/	205	3
3	GEORGE LAKE	SURF	94/	14/	65	0.53	54/	10/	35	0.0	0.0	0.0	54/	10/	35	2
		U G THN	195/	23/	149	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	90/	10/	71	0.00	10/	5/	0	0.0	0.0	0.0	10/	5/	0	1
			379/	29/	321	0.13	65/	11/	42	0.0	0.0	0.0	65/	11/	42	2
4	MANAWAN LAKE	SURF	372/	21/	330	0.68	257/	15/	226	1.0	0.1	1.2	256/	15/	225	3
		U G THN	167/	13/	142	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	40/	4/	31	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			579/	25/	529	0.43	257/	15/	226	1.0	0.1	1.2	256/	15/	225	3
5	BON ACCORD	SURF	170/	10/	150	0.71	121/	8/	106	0.0	<0.1	<0.1	121/	8/	106	2
		U G THN	63/	7/	49	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			232/	12/	208	0.51	121/	8/	106	0.0	<0.1	<0.1	121/	8/	106	3
6	CARDIFF	SURF	105/	5/	95	0.46	49/	3/	44	0.7	5.3	6.1	43/	3/	38	2
		U G THN	50/	4/	42	0.02	1/	0/	1	0.0	1.0	1.0	0/	0/	0	1
		U G MED	6/	0/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			161/	7/	148	0.30	50/	3/	45	0.7	6.4	7.1	43/	3/	38	3
7	NAMAO	SURF	55/	9/	37	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G THN	108/	15/	79	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	16/	4/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			179/	18/	143	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		SURF	1177/	33/	1111	0.60	712/	22/	668	1.9	5.6	7.5	704/	22/	661	
		U G	1074/	35/	1003	0.03	45/	6/	34	0.0	1.0	1.0	44/	6/	33	
			2251/	48/	2155	0.33	757/	23/	712	1.9	6.6	8.5	748/	23/	703	
MUSREAU LAKE																
1	NORTH	SURF	62/	13/	37	0.66	44/	10/	24	0.0	0.0	0.0	44/	10/	24	3
		U G THN	40/	9/	22	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
			102/	16/	71	0.35	44/	10/	24	0.0	0.0	0.0	44/	10/	24	4
2	AMUNDSON	U G THN	48/	4/	41	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	64/	6/	52	0.68	43/	4/	35	0.0	0.0	0.0	43/	4/	35	3
			112/	6/	100	0.35	43/	4/	35	0.0	0.0	0.0	43/	4/	35	4
3	KAKWA TOWER	SURF	126/	9/	108	0.86	109/	8/	93	0.0	0.0	0.0	109/	8/	93	5
		U G THN	198/	10/	178	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	58/	6/	45	0.67	39/	4/	31	0.0	0.0	0.0	39/	4/	31	1
			382/	13/	356	0.37	148/	8/	132	0.0	0.0	0.0	148/	8/	132	7
		SURF	188/	15/	158	0.81	153/	12/	129	0.0	0.0	0.0	153/	12/	129	
		U G	408/	15/	378	0.19	82/	5/	71	0.0	0.0	0.0	82/	5/	71	
			597/	21/	554	0.38	234/	13/	208	0.0	0.0	0.0	234/	13/	208	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	3.2/0.09	70.1/ 1.5	1.41/0.03	1- 55		17.8			
	1.1/0.07	66.2/ 1.5	1.42/0.04	10- 87		0.0			
	2.5/0.05	44.1/ 1.4	1.41/0.05	30- 79		17.8			
	3.1/0.09	132.2/ 2.9	1.41/0.02	1- 87	SUB C	17.8		1981	MINE #1523 - NOT PRODUCING
	2.6/0.35	25.3/ 1.1	1.44/0.09	7- 51		17.2			
	1.4/0.15	67.3/ 2.7	1.42/0.07	15-149		0.0			
	1.9/0.07	33.0/ 1.3	1.47/0.14	28- 65		0.0			
	2.1/0.15	128.7/ 3.3	1.43/0.05	7-149	SUB C	17.2		1981	
	2.5/0.11	106.2/ 2.5	1.43/0.03	2- 54		17.0			
	1.2/0.07	98.5/ 2.5	1.42/0.05	9- 71		0.0			
	1.9/0.14	14.2/ 0.8	1.48/0.09	25- 55		0.0			
	2.1/0.06	194.1/ 4.7	1.43/0.03	2- 71	SUB C	17.0		1981	MINE #1582-PRODUCING
	2.5/0.12	45.5/ 1.4	1.49/0.02	7- 45		16.7			
	1.2/0.12	34.9/ 1.2	1.50/0.02	17- 48		0.0			
	1.9/0.08	80.4/ 2.3	1.49/0.02	7- 48	SUB C	16.7			
	2.5/0.10	28.6/ 0.7	1.47/0.02	4- 55		16.1			
	1.2/0.09	28.0/ 0.7	1.50/0.02	11-102		0.0			
	2.1/0.07	1.9/ 0.1	1.52/0.02	33- 74		0.0			
	2.1/0.07	52.5/ 1.2	1.47/0.02	4-102	SUB C	16.1			MINE #1626-NOT PRODUCING
	1.4/0.22	27.1/ 1.4	1.44/0.02	4- 42		0.0			
	1.3/0.17	56.5/ 2.2	1.47/0.02	9- 58		0.0			
	1.7/0.08	5.9/ 1.5	1.55/0.02	40- 41		0.0			
	1.5/0.13	80.6/ 2.7	1.47/0.02	4- 58	SUB C	0.0			
	2.6/0.06	317.8/ 3.7	1.44/0.02	1- 55		17.1			
	1.7/0.05	427.5/ 4.7	1.45/0.02	9-140		17.5			
::::::::	2.2/0.04	723.6/ 7.6	1.44/0.01	1-149		17.1		::::::	::
	2.1/0.41	18.6/ 1.0	1.55/0.02	2- 52		16.0			
	1.8/0.39	14.1/ 1.0	1.55/0.02	12- 73		0.0			
	2.7/0.40	24.8/ 1.1	1.55/0.02	2- 73	SUB A	16.0	3		
	1.6/0.09	20.0/ 1.1	1.50/0.01	33-140		0.0			
	2.4/0.11	18.1/ 1.5	1.50/0.02	41-139		19.0			
	2.8/0.10	26.7/ 1.1	1.50/0.01	33-140	HVC/SUB A	19.0	3	1987	
	2.6/0.07	32.1/ 2.1	1.49/0.01	6- 60		20.4			
	1.4/0.04	96.6/ 4.1	1.49/0.02	13-138		0.0			
	1.8/0.10	21.8/ 2.0	1.49/0.01	30-100		21.0			
	2.0/0.04	128.4/ 3.5	1.49/0.01	6-138	HVC/SUB A	20.7	3&4	1987	
	2.4/0.16	50.8/ 2.4	1.51/0.01	2- 60		19.1			
	2.0/0.06	137.5/ 4.0	1.50/0.01	12-140		20.0			
::::::::	2.2/0.06	179.9/ 3.7	1.50/0.01	2-140		19.5		::::::	::

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
ROLLING HILLS																
1		SURF	0/	0/	0	0.80	0/	0/	0	0.1	<0.1	0.1	0/	0/	0	1
		U G THN	289/	32/	225	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	146/	7/	133	0.71	99/	3/	94	0.0	0.0	0.0	99/	3/	94	1
			435/	32/	371	0.25	99/	3/	94	0.1	<0.1	0.1	99/	3/	94	2
		SURF	0/	0/	0	0.80	0/	0/	0	0.1	<0.1	0.1	0/	0/	0	
		U G	435/	32/	370	0.25	99/	3/	94	0.0	0.0	0.0	99/	3/	94	
			435/	32/	371	0.25	99/	3/	94	0.1	<0.1	0.1	99/	3/	94	
ROSEMARY																
1		U G THN	114/	13/	89	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	36/	6/	23	0.45	16/	3/	10	0.0	0.0	0.0	16/	3/	10	1
			150/	13/	124	0.08	16/	3/	10	0.0	0.0	0.0	16/	3/	10	2
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	150/	14/	121	0.08	16/	3/	10	0.0	0.0	0.0	16/	3/	10	
			150/	13/	124	0.08	16/	3/	10	0.0	0.0	0.0	16/	3/	10	
SCOLLARD																
1	NEVIS	SURF	18/	3/	12	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	5/	1/	2	0.03	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			23/	4/	16	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
2	EWING LAKE	SURF	40/	5/	29	0.30	14/	2/	9	<0.1	<0.1	<0.1	14/	2/	9	2
		U G THN	35/	6/	23	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	45/	4/	36	0.54	27/	4/	19	0.0	<0.1	<0.1	27/	4/	20	1
		U G THK	17/	4/	8	0.44	8/	2/	4	0.0	0.0	0.0	8/	2/	4	1
			136/	15/	106	0.36	48/	5/	38	<0.1	<0.1	<0.1	48/	5/	38	3
3	BIG VALLEY	SURF	71/	6/	59	0.11	11/	2/	6	<0.1	0.3	0.4	10/	2/	6	2
		U G THN	39/	6/	28	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
		U G MED	58/	4/	50	0.33	20/	2/	17	0.0	0.2	0.2	20/	2/	17	1
			169/	12/	145	0.18	31/	2/	26	<0.1	0.5	0.5	30/	2/	25	4
4	RUMSEY	SURF	20/	3/	15	0.31	8/	1/	5	0.0	<0.1	<0.1	8/	1/	5	2
		U G THN	8/	3/	2	0.01	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			28/	4/	20	0.23	8/	1/	5	0.0	<0.1	<0.1	8/	1/	5	2
		SURF	149/	12/	125	0.20	32/	4/	25	<0.1	0.4	0.4	32/	4/	24	
		U G	207/	16/	175	0.26	54/	4/	45	0.0	0.3	0.3	54/	4/	45	
			356/	20/	316	0.24	86/	6/	75	<0.1	0.6	0.7	85/	6/	74	
SHEERNESS																
1		SURF	296/	6/	284	0.75	222/	5/	213	9.6	0.2	9.8	212/	5/	203	3
		U G THN	7/	1/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			304/	6/	291	0.73	222/	5/	213	9.6	0.2	9.8	212/	5/	203	3
		SURF	296/	6/	284	0.75	222/	5/	213	9.6	0.2	9.8	212/	5/	203	
		U G	7/	1/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			304/	6/	291	0.73	222/	5/	213	9.6	0.2	9.8	212/	5/	203	

PLAINS REGION

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	2.1/0.12	0.0/ 0.0	1.40/0.08	10- 15		0.0			
	1.7/0.18	123.2/ 3.6	1.38/0.02	48-121		0.0			
	1.7/0.04	54.7/ 2.0	1.55/0.02	37- 79		18.1			
	2.4/0.12	126.8/ 6.3	1.44/0.02	37-121	SUB B	18.1			
	2.0/0.12	0.0/ 0.0	1.27/0.08	10- 15		0.0			
	2.4/0.12	126.8/ 6.3	1.44/0.02	37-121		18.1			
:::::::	2.4/0.12	126.8/ 6.3	1.44/0.02	37-121		18.1			:::
	1.1/0.09	72.7/ 5.0	1.39/0.02	47- 84		0.0			
	1.6/0.19	15.2/ 2.0	1.43/0.03	54- 71		18.3			
	1.3/0.09	80.8/ 3.9	1.40/0.01	47- 74	SUB A/B	18.3		1988	FORMERLY ISOLATED DEPOSIT NORTH BROOKS
	0.0/0.00	0.0/ 0.0	0.00/0.00			0.0			
	1.3/0.09	80.8/ 3.9	1.40/0.01	47- 84		18.3			
:::::::	1.3/0.09	80.8/ 3.9	1.40/0.01	47- 74		18.3			:::
	1.7/0.21	7.7/ 0.3	1.37/0.12	2- 14		0.0			
	0.8/0.10	4.2/ 0.4	1.43/0.33	11- 37		0.0			
	1.4/0.17	11.9/ 0.4	1.38/0.13	2- 37	SUB B	0.0		1982	
	3.4/0.42	7.7/ 0.3	1.52/0.06	9- 54		16.9			
	1.3/0.22	17.6/ 0.6	1.50/0.08	18-151		0.0			
	2.0/0.13	14.7/ 0.6	1.53/0.09	30- 72		16.7			
	3.9/0.12	2.7/ 0.7	1.59/0.07	65- 66		15.2			
	2.8/0.20	31.9/ 2.5	1.53/0.04	9-151	SUB B	16.7		1982	
	2.4/0.13	19.3/ 0.5	1.51/0.09	1- 57		16.2			
	1.5/0.18	17.2/ 0.6	1.48/0.10	18-145		0.0			
	2.2/0.12	17.0/ 0.5	1.54/0.05	37-152		16.2			
	2.5/0.13	44.0/ 1.5	1.51/0.05	1-152	SUB B	16.2		1982	
	2.1/0.20	6.9/ 0.4	1.39/0.13	4- 46		19.2			
	1.4/0.23	3.9/ 0.4	1.42/0.40	19- 59		0.0			
	1.9/0.16	10.8/ 0.8	1.40/0.13	4- 59	SUB A/B	19.2		1982	
	2.4/0.11	41.6/ 0.8	1.48/0.05	1- 57		17.2			
	2.4/0.10	56.9/ 1.4	1.52/0.04	11-152		16.3			
:::::::	2.4/0.09	98.5/ 3.4	1.50/0.03	1-152		16.7			:::
	2.8/0.03	70.6/ 1.1	1.48/0.01	1- 33		14.5			
	0.9/0.03	5.9/ 0.6	1.42/0.08	11- 37		0.0			
	2.7/0.03	76.5/ 1.2	1.47/0.01	1- 37	SUB C	14.5		1985	MINE #443-PROD; MINE #1782-UNDEVELOPED
	2.8/0.03	70.6/ 1.1	1.48/0.01	1- 33		14.5			
	0.9/0.03	5.9/ 0.6	1.42/0.08	11- 37		0.0			
:::::::	2.7/0.03	76.5/ 1.2	1.47/0.01	1- 37		14.5			:::

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES							MEGATONNES						
SIMONETTE																
1		SURF	158/	25/	109	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G THN	111/	28/	55	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
			269/	37/	194	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		SURF	158/	25/	109	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	111/	28/	55	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			269/	37/	194	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
SOUTH SWAN HILLS																
1	RAINBOW CREEK	SURF	22/	7/	7	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G THN	24/	5/	14	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			45/	9/	27	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
2	FREEMAN CREEK	SURF	2/	1/	0	0.75	2/	1/	0	0.0	0.0	0.0	2/	1/	0	1
		U G THN	27/	5/	17	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	41/	9/	24	0.66	27/	6/	16	0.0	0.0	0.0	27/	6/	16	3
		U G THK	168/	18/	133	0.45	76/	8/	60	0.0	0.0	0.0	76/	8/	60	2
			238/	25/	188	0.43	105/	12/	81	0.0	0.0	0.0	105/	12/	81	5
3	JUDY CREEK	SURF	306/	13/	281	0.80	247/	11/	226	<0.1	0.0	<0.1	247/	11/	226	6
		U G THN	84/	7/	70	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	140/	10/	120	0.64	90/	7/	76	0.0	0.0	0.0	90/	7/	76	2
			530/	17/	495	0.63	337/	12/	312	<0.1	0.0	<0.1	337/	12/	312	6
4	CARSON LAKE	SURF	86/	10/	66	0.81	69/	8/	54	0.0	0.0	0.0	69/	8/	54	8
		U G THN	82/	12/	59	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	82/	11/	60	0.68	56/	8/	40	0.0	0.0	0.0	56/	8/	40	4
			250/	19/	212	0.48	125/	11/	102	0.0	0.0	0.0	125/	11/	102	10
5	ATHABASCA RIVER	SURF	10/	5/	0	0.00	9/	4/	0	0.0	0.0	0.0	9/	4/	0	1
		U G THN	25/	12/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	116/	40/	35	0.67	78/	27/	24	0.0	0.0	0.0	78/	27/	24	2
		U G THK	20/	10/	0	0.00	12/	6/	0	0.0	0.0	0.0	12/	6/	0	1
			171/	43/	84	0.27	99/	38/	23	0.0	0.0	0.0	99/	38/	23	3
6	SAKWATAMAU RIVER	SURF	88/	34/	19	0.69	62/	24/	13	0.0	0.0	0.0	62/	24/	13	1
		U G THN	4/	2/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	30/	13/	4	0.68	20/	9/	3	0.0	0.0	0.0	20/	9/	3	3
		U G THK	48/	16/	16	0.92	27/	6/	15	0.0	0.0	0.0	27/	6/	15	1
			170/	45/	80	0.63	110/	29/	51	0.0	0.0	0.0	110/	29/	51	4
		SURF	514/	43/	428	0.77	389/	31/	328	<0.1	0.0	<0.1	389/	31/	328	
		U G	891/	59/	774	0.39	386/	42/	301	0.0	0.0	0.0	386/	42/	301	
			1405/	73/	1259	0.53	775/	52/	670	<0.1	0.0	<0.1	775/	52/	670	
STRATHMORE																
1	ROCKYFORD	U G THN	352/	19/	314	0.00	0/	0/	0	0.0	0.2	0.2	0/	0/	0	4
		U G MED	1033/	31/	971	0.68	694/	17/	659	0.0	0.0	0.0	694/	17/	659	3
			1385/	37/	1309	0.50	694/	17/	660	0.0	0.2	0.2	694/	17/	659	4
2	STANDARD	SURF	22/	2/	18	0.40	10/	1/	7	0.0	0.1	0.1	10/	1/	7	1
		U G THN	237/	14/	209	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
		U G MED	122/	19/	84	0.68	82/	12/	58	0.0	0.0	0.0	82/	12/	58	1
			381/	24/	335	0.20	91/	12/	67	0.0	0.1	0.1	91/	12/	67	3
		SURF	22/	2/	18	0.40	10/	1/	7	0.0	0.1	0.1	10/	1/	7	
		U G	1744/	44/	1655	0.44	776/	21/	734	0.0	0.2	0.2	776/	21/	734	
			1766/	44/	1678	0.44	786/	21/	744	0.0	0.3	0.3	786/	21/	743	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	4.3/0.49	23.9/ 2.5	1.55/0.02	13- 54		0.0			
	2.4/0.56	20.6/ 2.8	1.55/0.02	46- 89		0.0			
	4.8/0.36	36.4/ 4.2	1.55/0.02	13- 89	SUB A	0.0	3		
	4.3/0.49	23.9/ 2.5	1.55/0.02	13- 54		0.0			
	2.4/0.56	20.6/ 2.8	1.55/0.02	46- 89		0.0			
::::::	4.8/0.36	36.4/ 4.2	1.55/0.02	13- 89		0.0			::
	3.3/0.99	4.7/ 0.8	1.40/0.02	25- 40		0.0			
	1.3/0.26	12.4/ 0.9	1.47/0.02	17- 53		0.0			
	1.8/0.33	17.0/ 0.9	1.44/0.06	17- 53	SUB C	0.0	3		
	1.8/0.23	0.6/ 0.2	1.54/0.01	25- 30		14.3			
	1.0/0.09	17.9/ 2.8	1.54/0.02	25-100		0.0			
	2.9/0.25	10.9/ 1.9	1.47/0.09	45- 75		16.1			
	4.7/0.37	24.6/ 1.6	1.47/0.04	65- 75		16.3			
	3.0/0.28	54.1/ 2.2	1.47/0.05	25-100	SUB C	16.1	3	1983	
	4.4/0.14	48.0/ 1.0	1.45/0.02	5- 55		16.5			
	1.5/0.12	37.9/ 0.9	1.48/0.02	18-102		0.0			
	3.5/0.23	25.5/ 0.6	1.55/0.02	22-158		15.6			
	4.1/0.11	88.4/ 1.9	1.48/0.02	5-158	SUB C	16.3	3		
	2.2/0.18	25.2/ 2.7	1.57/0.07	1- 90		14.2			
	1.3/0.14	41.9/ 3.4	1.55/0.12	13-102		0.0			
	2.0/0.14	26.8/ 2.8	1.56/0.08	30-195		14.7			
	1.8/0.06	88.5/ 4.6	1.56/0.07	1-195	SUB C	14.4	3	1983	
	5.0/0.71	1.3/ 0.5	1.58/0.51	55- 60		0.0			
	3.3/0.43	12.9/ 1.3	1.51/0.11	45- 95		0.0			
	2.3/0.63	32.9/ 3.1	1.54/0.30	45- 95		15.7			
	4.1/1.49	3.2/ 0.6	1.57/0.45	60- 70		0.0			
	2.2/0.29	50.0/ 3.3	1.54/0.32	45- 95	SUB B	15.7	3	1983	
	3.0/1.06	19.2/ 2.0	1.55/0.20	30- 55		14.8			
	0.7/0.65	4.0/ 0.9	1.52/0.58	50- 50		0.0			
	1.9/0.72	10.2/ 1.6	1.55/0.25	40- 75		14.8			
	4.3/1.04	7.2/ 1.6	1.56/0.07	65- 80		14.5			
	2.8/0.69	39.8/ 3.5	1.55/0.12	30- 80	SUB B/C	14.8	3	1983	
	3.5/0.23	99.0/ 3.0	1.49/0.04	1- 90		15.5			
	2.5/0.12	238.8/ 6.8	1.52/0.05	15-195		15.0			
:::::::::	2.8/0.11	337.8/ 6.6	1.51/0.04	1-195		15.3			::
	1.4/0.06	171.5/ 5.5	1.43/0.01	13-335		0.0			
	3.5/0.08	208.4/ 3.3	1.41/0.01	142-327		20.9			
	4.1/0.10	239.5/ 4.3	1.41/0.00	13-335	SUB A	20.9		1986	
	1.5/0.08	10.4/ 0.8	1.43/0.01	4- 26		20.1			
	2.6/0.13	64.2/ 2.0	1.42/0.01	16-333		0.0			
	2.0/0.28	44.3/ 2.8	1.38/0.01	250-365		21.7			
	4.1/0.23	66.9/ 1.9	1.41/0.01	4-365	SUB A	21.4		1987	
	1.5/0.08	10.4/ 0.8	1.43/0.01	4- 26		20.1			
	4.0/0.08	303.6/ 3.9	1.41/0.01	13-365		21.0			
::::::::	4.1/0.09	306.3/ 4.7	1.41/0.00	4-365		21.0			::

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
TABER																
1		SURF	28/	2/	24	0.37	10/	1/	9	1.5	0.1	1.6	9/	1/	7	1
		U G THN	132/	4/	124	0.02	2/	0/	2	0.0	2.3	2.3	0/	0/	0	1
			160/	5/	151	0.08	13/	1/	11	1.5	2.4	3.9	9/	1/	7	1
		SURF	28/	2/	24	0.37	10/	1/	9	1.5	0.1	1.6	9/	1/	7	
		U G	132/	4/	124	0.02	2/	0/	2	0.0	2.3	2.3	0/	0/	0	
::::::::::::::::::::::::::::::::::::			160/	5/	151	0.08	13/	1/	11	1.5	2.4	3.9	9/	1/	7	:::::::::
TOFIELD-DODDS																
1	TOFIELD	SURF	70/	4/	62	0.57	41/	3/	35	2.7	<0.1	2.7	38/	3/	33	2
		U G THN	5/	1/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	8/	1/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			82/	4/	74	0.48	41/	3/	35	2.7	<0.1	2.7	38/	3/	33	2
2	MIQUELON LAKES	U G THN	455/	80/	296	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	321/	41/	238	0.58	200/	31/	138	0.0	0.0	0.0	200/	31/	138	2
			776/	89/	597	0.23	200/	31/	138	0.0	0.0	0.0	200/	31/	138	5
3	DUSTY LAKE	SURF	593/	19/	555	0.72	425/	14/	397	2.1	0.6	2.7	423/	14/	395	5
		U G THN	76/	4/	68	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	25/	1/	23	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			693/	19/	654	0.61	425/	14/	397	2.1	0.6	2.7	423/	14/	395	5
4	DINANT	SURF	168/	13/	141	0.02	14/	6/	2	0.8	0.8	1.6	12/	6/	1	3
		U G THN	1160/	65/	1030	0.00	0/	0/	0	0.0	0.3	0.3	0/	0/	0	4
		U G MED	1040/	51/	938	0.56	588/	31/	527	0.0	<0.1	<0.1	588/	31/	527	2
			2368/	83/	2200	0.25	602/	31/	540	0.8	1.1	1.9	600/	31/	538	4
5	OHATON	SURF	243/	12/	220	0.64	158/	9/	141	0.0	0.0	0.0	158/	9/	141	3
		U G THN	150/	10/	131	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	66/	8/	50	0.22	12/	1/	11	0.0	0.0	0.0	12/	1/	11	1
			459/	27/	405	0.38	170/	9/	153	0.0	<0.1	<0.1	170/	9/	153	3
		SURF	1074/	30/	1014	0.59	638/	18/	603	5.5	1.4	7.0	631/	18/	596	
		U G	3304/	123/	3059	0.23	800/	44/	713	0.0	0.3	0.3	800/	44/	713	
::::::::::::::::::::::::::::::::::::			4378/	126/	4125	0.33	1438/	47/	1344	5.5	1.8	7.3	1431/	47/	1337	:::::::::
WABAMUN																
1	STANGER	SURF	87/	7/	73	0.81	71/	6/	59	0.0	0.0	0.0	71/	6/	59	2
		U G THN	2/	0/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			88/	7/	74	0.80	71/	6/	59	0.0	0.0	0.0	71/	6/	59	3
2	MAGNOLIA	SURF	363/	15/	333	0.68	248/	10/	228	<0.1	<0.1	<0.1	248/	10/	228	3
		U G THN	38/	5/	29	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	303/	21/	261	0.46	140/	10/	120	0.0	0.0	0.0	140/	10/	120	2
		U G THK	22/	5/	13	0.66	15/	3/	9	0.0	0.0	0.0	15/	3/	9	1
			726/	20/	686	0.55	402/	12/	379	<0.1	<0.1	<0.1	402/	12/	379	4
3	GAINFORD	SURF	208/	7/	194	0.63	131/	4/	122	<0.1	<0.1	<0.1	131/	4/	122	4
		U G THN	213/	9/	196	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	1391/	49/	1293	0.65	900/	31/	839	0.0	0.0	0.0	900/	31/	839	2
			1813/	22/	1768	0.56	1030/	21/	989	<0.1	<0.1	<0.1	1030/	21/	990	5

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	1.0/0.02	19.7/ 1.2	1.40/0.01	4- 18		22.2			
	0.9/0.02	106.6/ 2.0	1.39/0.01	11- 78		0.0			
	0.9/0.02	126.4/ 2.0	1.39/0.01	4- 78	SUB A	22.2		1986	
	1.0/0.02	19.7/ 1.2	1.40/0.01	4- 18		22.2			
	0.9/0.02	106.6/ 2.0	1.39/0.01	11- 78		0.0			
::::::::	0.9/0.02	126.4/ 2.0	1.39/0.01	4- 78		22.2			::
	1.7/0.07	31.1/ 1.0	1.33/0.02	1- 51		18.8			
	1.0/0.19	3.4/ 0.3	1.33/0.02	9- 28		0.0			
	1.9/0.08	3.0/ 0.3	1.33/0.02	22- 46		0.0			
	1.7/0.07	36.9/ 1.2	1.33/0.02	1- 51	SUB C	18.8			MINE #1803-UNDEVELOPED
	3.0/0.49	104.9/ 5.9	1.44/0.05	15-146		0.0			
	3.0/0.33	72.3/ 4.3	1.49/0.05	39-137		16.9			
	4.4/0.40	119.7/ 6.6	1.46/0.04	15-146	SUB C	16.9			
	2.5/0.04	172.9/ 3.8	1.37/0.02	1- 55		17.7			
	1.2/0.05	43.9/ 0.9	1.43/0.02	8- 70		0.0			
	1.8/0.04	8.7/ 0.2	1.55/0.02	14- 46		0.0			
	2.3/0.05	216.4/ 4.3	1.39/0.02	1- 70	SUB C	17.7			MINE #215-PRODUCING
	2.4/0.13	47.9/ 2.8	1.45/0.02	3- 55		17.8			
	2.7/0.14	298.6/ 6.0	1.45/0.02	10-185		0.0			
	2.9/0.12	245.9/ 4.9	1.45/0.02	38-137		17.8			
	4.8/0.09	341.7/ 6.8	1.45/0.02	3-185	SUB C	17.8			
	3.8/0.15	46.7/ 1.0	1.37/0.02	9- 54		17.7			
	1.3/0.08	63.3/ 1.9	1.38/0.05	14- 57		0.0			
	2.0/0.24	23.3/ 0.7	1.42/0.02	24- 61		16.3			
	2.5/0.13	133.9/ 2.7	1.38/0.02	9- 61	SUB C	17.7			
	2.6/0.04	298.6/ 4.8	1.38/0.01	1- 55		17.8			
	4.1/0.14	555.5/ 7.5	1.45/0.01	8-185		17.6			
::::::::	3.6/0.07	848.7/12.8	1.43/0.01	1-185		17.7			::
	3.4/0.21	16.7/ 0.9	1.53/0.02	4- 58		16.2			
	0.6/0.04	1.7/ 0.4	1.44/0.01	10- 22		0.0			
	3.2/0.19	18.4/ 0.9	1.53/0.02	4- 58	SUB B	16.2		1987	
	4.4/0.14	55.4/ 1.4	1.48/0.01	2- 60		17.7			
	1.0/0.04	27.1/ 3.1	1.45/0.01	18-117		0.0			
	3.7/0.13	55.4/ 3.3	1.48/0.01	27-136		18.0			
	3.8/0.15	3.9/ 0.8	1.51/0.01	60- 94		17.3			
	4.2/0.09	117.0/ 2.0	1.48/0.01	2-136	SUB B	17.7		1987	
	5.5/0.13	26.6/ 0.6	1.43/0.01	16- 60		18.9			
	1.6/0.05	91.6/ 2.3	1.43/0.03	50-149		0.0			
	5.4/0.14	180.3/ 4.2	1.43/0.01	31-201		18.9			
	6.1/0.04	208.3/ 2.1	1.43/0.00	16-201	SUB B	18.9		1987	

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
WABAMUN																
4	WHITEWOOD	SURF	476/	6/	464	0.60	285/	3/	279	47.4	1.2	48.6	237/	3/	230	6
		U G THN	50/	2/	47	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	68/	4/	60	0.64	43/	2/	39	0.0	0.0	0.0	43/	2/	39	1
			594/	5/	585	0.55	329/	3/	322	47.4	1.2	48.6	280/	3/	274	6
5	SUNDANCE	SURF	493/	6/	481	0.86	421/	4/	412	117.1	<0.1	117.1	304/	4/	295	5
		U G THN	128/	6/	117	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	430/	19/	392	0.68	290/	13/	264	0.0	0.0	0.0	290/	13/	264	2
		U G THK	169/	13/	142	0.64	108/	8/	92	0.0	0.0	0.0	108/	8/	92	1
			1220/	10/	1200	0.67	819/	7/	805	117.1	<0.1	117.1	702/	7/	688	5
6	KEEPHILLS	SURF	374/	8/	358	0.81	301/	6/	288	0.0	0.0	0.0	301/	6/	288	5
		U G THN	113/	4/	106	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	317/	9/	299	0.68	214/	6/	202	0.0	0.0	0.0	214/	6/	202	2
		U G THK	149/	12/	126	0.65	96/	7/	82	0.0	0.0	0.0	96/	7/	82	1
			953/	10/	934	0.64	611/	7/	598	0.0	0.0	0.0	611/	7/	598	5
7	LOW WATER LAKE	SURF	71/	4/	62	0.69	49/	3/	43	0.0	0.0	0.0	49/	3/	43	4
		U G THN	263/	9/	246	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	389/	20/	349	0.66	257/	13/	231	0.0	0.0	0.0	257/	13/	231	2
		U G THK	585/	19/	546	0.63	366/	11/	344	0.0	0.0	0.0	366/	11/	344	1
			1307/	22/	1262	0.51	672/	13/	646	0.0	0.0	0.0	672/	13/	646	5
8	TOMAHAWK	U G THN	776/	29/	719	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	1544/	43/	1459	0.62	967/	28/	911	0.0	0.0	0.0	967/	28/	911	2
		U G THK	714/	26/	662	0.63	449/	15/	419	0.0	0.0	0.0	449/	15/	419	1
			3035/	46/	2942	0.46	1416/	24/	1367	0.0	0.0	0.0	1416/	24/	1367	6
		SURF	2071/	15/	2040	0.73	1506/	12/	1482	164.5	1.2	165.8	1340/	12/	1316	
		U G	7666/	59/	7548	0.50	3844/	36/	3771	0.0	0.0	0.0	3844/	36/	3771	
			9736/	61/	9614	0.55	5349/	38/	5273	164.5	1.2	165.8	5184/	38/	5108	
WETASKIWIN																
1	BERRYMOOR	U G THN	142/	6/	131	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	38/	1/	25	0.68	26/	1/	17	0.0	0.0	0.0	26/	1/	17	1
		U G THK	306/	13/	281	0.60	178/	6/	167	0.0	0.0	0.0	178/	6/	167	1
			486/	14/	460	0.42	204/	5/	193	0.0	0.0	0.0	204/	5/	193	6
2	LINDALE	SURF	28/	5/	19	0.79	21/	3/	15	0.0	0.0	0.0	21/	3/	15	2
		U G THN	48/	3/	37	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	635/	38/	559	0.66	419/	25/	369	0.0	0.0	0.0	419/	25/	369	2
			710/	38/	635	0.62	440/	25/	391	0.0	0.0	0.0	440/	25/	391	3
3	GENESEE	SURF	514/	10/	494	0.81	415/	8/	399	0.5	<0.1	0.5	414/	8/	399	3
		U G THN	127/	6/	114	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	349/	14/	322	0.67	235/	9/	217	0.0	0.0	0.0	235/	9/	217	2
			989/	16/	957	0.66	650/	11/	628	0.5	<0.1	0.5	649/	11/	627	4
4	THORSBY	SURF	183/	9/	165	0.81	148/	7/	134	0.0	0.0	0.0	148/	7/	134	4
		U G THN	347/	14/	318	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	365/	16/	334	0.67	243/	10/	222	0.0	0.0	0.0	243/	10/	222	2
			894/	21/	851	0.43	391/	11/	369	0.0	0.0	0.0	391/	11/	369	5
5	WIZARD LAKE	SURF	561/	16/	528	0.76	427/	12/	402	<0.1	<0.1	<0.1	427/	12/	402	6
		U G THN	573/	20/	533	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	10
		U G MED	641/	26/	589	0.65	413/	17/	380	0.0	0.0	0.0	413/	17/	380	3
			1775/	41/	1692	0.47	840/	24/	792	<0.1	<0.1	<0.1	840/	24/	793	10

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED M V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
5.0/0.05	66.8/ 0.5		1.44/0.01	1- 60		18.0			
1.4/0.02	25.2/ 0.8		1.44/0.01	13- 84		0.0			
2.7/0.04	17.9/ 0.9		1.41/0.00	47- 83		19.1			
4.8/0.02	85.8/ 0.4		1.43/0.00	1- 94	SUB B/C	18.2		1987	MINE #1757-PRODUCING
6.7/0.07	51.4/ 0.4		1.43/0.00	3- 60		18.3			
1.6/0.03	54.9/ 2.0		1.43/0.02	13-159		0.0			
4.6/0.06	65.7/ 2.8		1.42/0.00	52-150		18.8			
3.8/0.05	31.1/ 2.4		1.43/0.00	60-147		18.3			
7.3/0.04	117.2/ 0.6		1.42/0.00	3-159	SUB B/C	18.6		1987	MINE #1769-PRODUCING
5.6/0.08	46.1/ 0.7		1.44/0.00	12- 60		18.2			
1.2/0.02	65.4/ 1.7		1.46/0.01	15-141		0.0			
3.9/0.06	56.4/ 1.3		1.44/0.00	57-135		18.4			
3.8/0.06	27.4/ 2.1		1.45/0.00	60-130		18.2			
6.0/0.05	110.9/ 0.7		1.44/0.00	12-141	SUB B	18.2		1987	
5.2/0.08	9.6/ 0.6		1.41/0.00	34- 60		18.8			
1.6/0.04	116.7/ 2.3		1.43/0.01	60-141		0.0			
2.6/0.07	105.7/ 4.5		1.42/0.00	43-128		18.8			
3.8/0.05	108.6/ 3.4		1.41/0.00	60-131		19.0			
7.5/0.08	122.6/ 1.6		1.42/0.00	34-141	SUB B	19.0		1987	
2.2/0.07	244.5/ 4.6		1.45/0.01	95-302		0.0			
3.8/0.09	283.8/ 4.5		1.43/0.00	86-287		19.6			
3.8/0.05	134.4/ 4.4		1.41/0.00	89-204		20.1			
7.2/0.08	293.0/ 3.2		1.43/0.00	86-302	SUB B	19.8		1987	
5.3/0.04	272.7/ 1.9		1.45/0.00	1- 60		18.1			
6.6/0.05	810.9/ 6.8		1.43/0.00	10-302		19.1			
6.3/0.03	1073.2/ 4.9		1.43/0.00	1-302		18.9			
1.8/0.06	53.8/ 1.2		1.46/0.01	120-285		0.0			
3.3/0.11	7.8/ 1.3		1.47/0.01	173-235		17.9			
4.2/0.11	49.7/ 1.5		1.48/0.01	152-286		17.6			
5.6/0.11	58.9/ 1.1		1.47/0.01	120-286	SUB B	17.6		1987	
5.9/0.23	3.4/ 0.5		1.41/0.02	39- 59		19.0			
1.0/0.06	31.8/ 2.8		1.43/0.02	73-166		0.0			
3.9/0.18	116.2/ 3.8		1.41/0.03	42-183		19.0			
4.2/0.18	120.3/ 3.4		1.41/0.02	39-183	SUB B	19.0		1987	
4.1/0.07	88.9/ 1.0		1.40/0.00	3- 60		18.9			
1.2/0.03	75.0/ 3.2		1.45/0.02	10-126		0.0			
3.8/0.08	65.7/ 2.1		1.39/0.00	43-143		19.7			
4.1/0.06	173.3/ 1.6		1.40/0.00	3-143	SUB B	19.2		1986	MINE #S1670,1788-PRODUCING
3.0/0.05	43.4/ 2.0		1.40/0.00	7- 60		19.3			
1.2/0.04	201.8/ 5.4		1.40/0.01	14-145		0.0			
2.0/0.06	134.0/ 4.3		1.39/0.00	30-156		20.0			
2.5/0.05	257.9/ 3.9		1.40/0.00	7-156	SUB B	19.8		1986	
2.6/0.05	146.1/ 2.9		1.45/0.00	3- 60		17.8			
1.5/0.03	267.3/ 7.2		1.46/0.02	10-139		0.0			
2.8/0.08	155.0/ 4.6		1.48/0.01	27-155		17.3			
3.1/0.06	395.7/ 4.4		1.46/0.01	3-155	SUB B	17.5		1986	

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
WETASKIWIN																
6	FALUN	SURF	361/	6/	349	0.77	278/	4/	269	0.0	0.0	0.0	278/	4/	269	5
		U G THN	595/	20/	555	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	748/	19/	710	0.66	489/	12/	465	0.0	0.0	0.0	489/	12/	465	3
			1704/	34/	1637	0.45	767/	16/	735	0.0	0.0	0.0	767/	16/	736	8
7	BEAR HILLS	U G THN	70/	7/	57	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	42/	6/	29	0.54	24/	4/	16	0.0	0.0	0.0	24/	4/	16	1
			112/	8/	95	0.17	24/	4/	16	0.0	0.0	0.0	24/	4/	16	3
		SURF	1646/	23/	1600	0.78	1290/	19/	1253	0.6	<0.1	0.6	1289/	19/	1252	
		U G	5024/	68/	4887	0.40	2027/	37/	1952	0.0	0.0	0.0	2027/	37/	1952	
			6669/	72/	6525	0.50	3317/	42/	3233	0.6	<0.1	0.6	3316/	42/	3233	
ISOLATED DEPOSITS																
1	COMREY	SURF	15/	3/	9	0.41	6/	1/	4	<0.1	<0.1	<0.1	6/	1/	4	2
		U G THN	35/	5/	26	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			50/	6/	38	0.10	6/	1/	4	<0.1	<0.1	<0.1	6/	1/	4	2
2	CYPRESS HILLS	SURF	43/	5/	33	0.75	36/	6/	25	<0.1	<0.1	<0.1	36/	6/	25	2
		U G THN	13/	2/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			55/	5/	45	0.55	36/	6/	25	<0.1	<0.1	<0.1	36/	6/	25	2
3	DEVON	SURF	11/	1/	10	0.01	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	21/	1/	19	0.03	1/	0/	1	0.0	0.7	0.7	0/	0/	0	1
		U G MED	6/	0/	5	0.05	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
			38/	1/	36	0.03	1/	0/	1	<0.1	0.9	1.0	0/	0/	0	1
4	LUCKY STRIKE	SURF	20/	2/	16	0.33	7/	1/	5	<0.1	<0.1	<0.1	7/	1/	5	1
		U G THN	16/	2/	12	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			36/	3/	29	0.18	7/	1/	5	<0.1	<0.1	0.1	7/	1/	5	2
5	POTHOLE	U G THN	19/	2/	15	0.01	0/	0/	0	0.0	0.1	0.1	0/	0/	0	1
			19/	2/	15	0.01	0/	0/	0	0.0	0.1	0.1	0/	0/	0	1
6	SAWRIDGE HILL	SURF	6/	1/	4	0.00	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	1
		U G THN	25/	3/	19	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	20/	2/	16	0.40	8/	1/	7	0.0	0.0	0.0	8/	1/	7	2
			51/	4/	43	0.15	8/	1/	7	<0.1	<0.1	<0.1	8/	1/	7	2
7	SWAN HILLS	SURF	39/	11/	17	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	11/	2/	7	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			49/	11/	28	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
8	THORHILD-ABEE	SURF	35/	4/	26	0.38	17/	4/	10	0.5	<0.1	0.5	17/	4/	10	2
		U G THN	23/	2/	19	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			58/	5/	48	0.21	17/	4/	10	0.5	<0.1	0.5	17/	4/	10	2
		SURF	169/	13/	142	0.37	66/	7/	52	0.5	0.1	0.6	65/	7/	51	
		U G	188/	8/	172	0.04	9/	1/	8	0.0	1.1	1.1	8/	1/	7	
			356/	15/	326	0.19	75/	7/	61	0.5	1.2	1.7	73/	7/	60	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	4.3/0.04	57.9/ 0.8	1.46/0.00	7- 60		17.5			
	1.8/0.05	223.7/ 3.4	1.46/0.00	22-158		0.0			
	3.0/0.05	170.5/ 3.1	1.46/0.00	26-155		18.0			
	4.3/0.08	274.3/ 1.6	1.46/0.00	7-158	SUB B	17.7		1986	
	1.2/0.09	40.6/ 2.2	1.48/0.04	30- 96		0.0			
	1.8/0.16	15.9/ 1.9	1.47/0.01	31- 85		16.9			
	1.6/0.09	48.0/ 2.3	1.48/0.02	30- 96	SUB B	16.9		1987	
	3.4/0.03	339.6/ 3.4	1.43/0.00	3- 60		18.3			
	3.4/0.03	1013.7/ 8.8	1.44/0.00	10-286		18.4			
::::::::	3.5/0.03	1328.3/ 7.1	1.44/0.00	3-286		18.4			::
	1.4/0.25	8.2/ 0.6	1.33/0.02	2- 19		19.3			
	1.1/0.13	24.9/ 1.7	1.33/0.02	14- 32		0.0			
	1.1/0.11	33.2/ 2.1	1.33/0.02	2- 32	SUB C	19.3			FOREMOST FM
	2.5/0.23	12.9/ 0.9	1.35/0.02	4- 36		14.9			
	1.0/0.13	8.9/ 0.8	1.35/0.02	11- 47		0.0			
	1.9/0.14	21.8/ 1.1	1.35/0.02	4- 47	LIG A	14.9			EASTEND FM, AND PERHAPS RAVENSCRAG
	1.3/0.06	6.6/ 0.3	1.32/0.02	2- 16		0.0			
	1.2/0.05	13.0/ 0.4	1.32/0.02	6- 38		0.0			
	1.6/0.05	2.8/ 0.2	1.32/0.02	24- 34		0.0			
	1.3/0.02	22.4/ 0.4	1.32/0.02	2- 38	SUB B	0.0			N C FM, CARBON-THOMPSON COAL ZONE
	1.1/0.08	13.1/ 1.0	1.40/0.02	2- 15		19.8			
	0.8/0.06	13.4/ 1.0	1.47/0.02	10- 36		0.0			
	0.9/0.05	26.5/ 1.9	1.43/0.02	2- 36	SUB A/B	19.8			FOREMOST FM
	1.1/0.10	12.4/ 0.6	1.40/0.02	8- 66		0.0			
	1.1/0.10	12.4/ 0.6	1.40/0.02	8- 66	H-V C	0.0			OLDMAN FM
	1.4/0.14	3.2/ 0.3	1.30/0.02	4- 21		0.0			
	1.0/0.10	17.6/ 0.9	1.41/0.02	13- 89		0.0			
	1.8/0.07	7.8/ 0.7	1.44/0.02	33- 96		13.7			
	1.3/0.09	27.3/ 1.0	1.42/0.02	4- 96	LIG A	13.7	3		WAPITI GP
	2.4/0.63	11.3/ 1.0	1.44/0.02	5- 44		0.0			
	0.8/0.13	9.6/ 1.0	1.41/0.02	27- 74		0.0			
	1.7/0.35	20.9/ 1.4	1.43/0.02	5- 74	SUB C	0.0	3		PASKAPOO FM, ARDLEY COAL ZONE
	1.5/0.17	17.0/ 0.9	1.37/0.02	2- 16		16.2			
	0.7/0.03	22.0/ 1.3	1.37/0.02	9- 22		0.0			
	1.1/0.08	39.0/ 1.9	1.37/0.02	2- 22	LIG A	16.2			MINE #1562-PRODUCING; WAPITI GP
	1.7/0.12	72.2/ 2.3	1.38/0.01	2- 44		16.1			
	1.0/0.03	131.2/ 3.0	1.38/0.01	8- 96		15.7			
::::::::	1.3/0.05	203.4/ 3.9	1.38/0.01	2- 96		15.8			::

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/	SE/	ESTB	RECOV RATIO	INITIAL RESERVES BE/	SE/	ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/	SE/	ESTB	NO SMS USED
			MEGATONNES				MEGATONNES									
MISCELLANEOUS																
1	HIGH VOL BIT	SURF	0/	0/	0	0.13	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G THN	0/	0/	0	0.30	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			0/	0/	0	0.22	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
2	SUBBITUMINOUS A	SURF	0/	0/	0	0.01	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G THN	0/	0/	0	0.37	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
		U G MED	0/	0/	0	0.13	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			0/	0/	0	0.26	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
3	SUBBITUMINOUS B	SURF	0/	0/	0	0.75	0/	0/	0	<0.1	<0.1	0.1	0/	0/	0	
		U G THN	0/	0/	0	0.29	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			0/	0/	0	0.52	0/	0/	0	<0.1	0.1	0.1	0/	0/	0	
4	SUBBITUMINOUS C	SURF	8/	1/	5	0.56	3/	0/	3	<0.1	3.0	3.1	0/	0/	0	
		U G THN	20/	3/	13	0.55	7/	0/	7	0.0	7.2	7.2	0/	0/	0	
		U G MED	12/	2/	8	0.55	4/	0/	4	0.0	4.4	4.4	0/	0/	0	
			40/	4/	32	0.46	15/	0/	15	<0.1	14.7	14.7	0/	0/	0	
5	LIGNITE A	SURF	0/	0/	0	0.11	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G THN	0/	0/	0	0.02	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
		U G MED	0/	0/	0	0.10	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			0/	0/	0	0.11	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		SURF	9/	1/	6	0.54	3/	0/	3	<0.1	3.1	3.2	0/	0/	0	
		U G	33/	4/	25	0.48	12/	0/	12	0.0	11.7	11.7	0/	0/	0	
			41/	4/	33	0.45	15/	0/	15	<0.1	14.9	14.9	0/	0/	0	
		SURF	13922/	109/	13703	0.63	8793/	68/	8657	232.9	20.7	253.6	8540/	68/	8404	
		U G	53772/	360/	53052	0.37	19765/	170/	19424	0.0	92.8	92.8	19672/	170/	19331	
GRAND TOTAL			67685/	376/	66932	0.42	28558/	183/	28192	232.9	113.5	346.4	28212/	183/	27845	

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
					H-V B				
					SUB A				
					SUB B				
					SUB C				
					LIG A				
	2.9/0.02	3279.1/12.5	1.45/0.00			17.2			
	3.2/0.02	11640.6/41.2	1.45/0.00			18.4			
::::::::	3.2/0.01	14768.6/46.7	1.45/0.00			18.1			::

TABLE A-3 (CONTINUED)

COAL FIELD / COAL DEPOSIT NO.	NAME	SEAM CLASS	INIT IN-PLACE RESOURCES BE/ SE/ ESTB	RECOV RATIO	INITIAL RESERVES BE/ SE/ ESTB	CUMULATIVE PROD BY MINING METHOD SURF	U G	TOT	REMAINING RESERVES BE/ SE/ ESTB	NO SMS USED
			MEGATONNES			MEGATONNES				
TOTALS BY RANK										
RANK										
	H-V C	SURF	119/ 7/ 105	0.67	82/ 6/ 70	0.0	<0.1	<0.1	82/ 6/ 70	
		U G	1616/ 33/ 1551	0.36	587/ 17/ 552	0.0	23.6	23.6	563/ 17/ 528	
			1724/ 34/ 1657	0.38	668/ 18/ 632	0.0	23.6	23.6	645/ 18/ 608	:::::::
	SUB A	SURF	637/ 30/ 576	0.40	254/ 12/ 230	2.6	6.1	8.7	245/ 12/ 222	
		U G	8398/189/ 8020	0.34	2906/ 94/ 2718	0.0	31.1	31.1	2875/ 94/ 2687	
			9035/191/ 8652	0.34	3160/ 95/ 2970	2.6	37.1	39.8	3120/ 95/ 2931	:::::::
	SUB B	SURF	6665/ 65/ 6534	0.66	4418/ 43/ 4332	126.6	2.9	129.5	4289/ 43/ 4203	
		U G	32641/237/32167	0.43	13976/123/13731	0.0	24.0	24.0	13952/123/13707	
			39307/246/38815	0.47	18394/130/18134	126.6	26.9	153.5	18241/130/17981	:::::::
	SUB C	SURF	6334/ 81/ 6172	0.62	3940/ 50/ 3839	103.2	11.7	114.8	3825/ 50/ 3724	
		U G	10694/188/10317	0.20	2235/ 69/ 2097	0.0	14.1	14.1	2221/ 69/ 2083	
			17029/205/16619	0.36	6175/ 86/ 6004	103.2	25.8	128.9	6046/ 86/ 5875	:::::::
	LIG A	SURF	167/ 10/ 147	0.57	100/ 8/ 84	0.5	<0.1	0.5	99/ 8/ 84	
		U G	423/ 36/ 351	0.13	61/ 8/ 45	0.0	<0.1	<0.1	61/ 8/ 45	
			590/ 37/ 515	0.27	161/ 11/ 138	0.5	<0.1	0.5	160/ 11/ 137	:::::::

PLAINS REGION

AV DIP	AGGREGATE AV THKNSS BE/ SE	MAP AREA BE/ SE	DENSITY USED BE/ SE	DEPTH RANGE	RANK	AS MINED H V	LAND CATG	YEAR RVSD	REMARKS
DEG	METRES	SQ KM	T/CUBIC M	METRES	ASTM	MJ/KG			
	2.4/0.06	33.4/ 2.1	1.48/0.01	3- 60		20.4			
	1.8/0.03	613.4/ 5.4	1.45/0.01	8-378		22.3			
:::::::	1.8/0.03	646.5/ 6.0	1.45/0.01	3-378	H-V C	22.1			
	2.2/0.08	193.1/ 5.9	1.47/0.01	1- 60		18.9			
	3.3/0.04	1768.9/18.2	1.43/0.02	446		20.1			
:::::::	3.3/0.04	1925.8/18.9	1.44/0.02	1-446	SUB A	20.1			
	3.5/0.03	1306.1/ 6.7	1.45/0.00	1-125		17.8			
	3.6/0.02	6166.3/28.8	1.46/0.00	338		18.1			
:::::::	3.6/0.02	7417.2/29.5	1.46/0.00	1-338	SUB B	18.0			
	2.6/0.03	1678.8/ 9.4	1.43/0.01	125		16.5			
	2.5/0.03	2960.8/29.1	1.44/0.01	8-204		17.2			
:::::::	2.6/0.02	4588.2/29.9	1.44/0.01	204	SUB C	16.8			
	1.8/0.10	67.6/ 1.8	1.35/0.01	1- 39		14.6			
	2.3/0.10	131.2/ 9.4	1.42/0.01	9-126		14.8			
:::::::	2.2/0.08	190.7/ 9.9	1.41/0.01	1-126	LIG A	14.7			

APPENDIX IV TABLES OF COAL OCCURRENCES

Those coal occurrences located in the Mountain and Foothills Regions are listed alphabetically in Tables B-1 and B-2, respectively.

In each table the number, average dip and aggregate average thickness of the coal seams which might, with additional data, be used in a deposit calculation, have been listed. Where there is poor confidence placed on these values a question mark is shown.

Each table also contains the ASTM rank and the geological Group or Formation, where this information is known.

TABLE B-1 COAL OCCURRENCES IN THE MOUNTAIN REGION OF ALBERTA, AT 31 DECEMBER 1988

Name	No. of Seams	Avr. Dip (Deg.)	Aggregate Avr. Thk. (Metres)	Rank (ASTM)	Group or Formation
Bighorn Falls	2	15	4.0	L-V/M-V	Luscar
Burns	2	50	10.8	L-V	Kootenay
Canyon Creek	1	35	1.1	H-V B	Kootenay
Daisy Creek	1	42	4.5	M-V	Kootenay
Grave Flats	4	50	6.0	M-V	Luscar
Hailstone Butte	1	60	2.3	M-V	Kootenay
March Creek	1	38	0.7	L-V	Kootenay
Muskiki Lake	3	45	6.0	M-V	Luscar
Picklejar Creek	6	40	21.6	L-V	Kootenay
Pocket Creek	1	42	4.5	M-V	Kootenay
Pope Creek	2	50	16.3	L-V	Luscar
Rock Lake	2	45	16.6	L-V	Luscar
Sheep Creek	2	20	4.4	M-V	Kootenay
Warden Creek	5	40	4.7	M-V	Luscar

TABLE B-2 COAL OCCURRENCES IN THE FOOTHILLS REGION OF ALBERTA, AT 31 DECEMBER 1988

Name	No. of Seams	Avr. Dip (Deg.)	Aggregate Avr. Thk. (Metres)	Rank (ASTM)	Group or Formation
Baril Creek	4	1	7.7		Paskapoo
Black Diamond	1	52	2.7	H-V B	Brazeau
Bob Creek	1	61	1.2	H-V A	Belly River
Boundary Creek	1	40	1.2		St. Mary Rv.
Bull Creek	1	85	1.5		Brazeau
Chungo Creek	2	25	2.1	H-V C	Paskapoo
Coalcamp Creek	1	20	0.6	H-V C	Brazeau
Cowley	1	60	2.5		Belly River
Dismal Creek	5	50	6.0?	H-V C	Paskapoo
Dixon	1	30	0.9	H-V B	Brazeau
Elk River	6?	50	5.0?	H-V C	Paskapoo
Fish Creek West	1	30	1.4	H-V B	Brazeau
Fish Creek East	1	15	1.1	H-V B/C	Brazeau
Grand Valley Creek	1	29	2.6	H-V C	Brazeau
Lee Creek	1	30	3.9?		St. Mary Rv.
McLennan Creek	1	45	2.1?		Brazeau
Piney Ridge	1	40	1.0?		St. Mary Rv.
Prairie Creek	5	15	10.0?	H-V C	Paskapoo
Priddis Creek	1	30	1.4	H-V B	Brazeau
Sheep River	1	47	.8	H-V A/B	Brazeau
Silver Creek	1	35	0.9	H-V B	Brazeau
Spring Creek	2	53	2.6	H-V B	Brazeau
Waterton River	1	40	1.1		Belly River

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